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Southern Cotton Manufacturers Must Meet Present Situation With Broad Publicity Work

WHEN such a great industry as the Southern cotton manufacturing business is viciously and falsely attacked, and when the communistic element, working to destroy the control of industry and the Government itself, finds ready access to the daily press it becomes necessary for the cotton manufacturers, in justice to themselves and to the South, to present to the public through display advertising in many of the leading publications of the country the true story of the whole situation. A minimum sum of \$500,000 should be promptly raised for this campaign. That is far too small; for even individual Southern cities—Dallas, Texas, for instance—have raised \$500,000 to advertise the advantages of one community.

This money should be expended not in any form of propaganda or in any secret way, but in straight out paid publicity setting forth the truth in regard to Southern cotton mill conditions and the operatives in these mills, telling in detail about the comforts and conveniences of the houses built for the mill villages, about the Christian association buildings erected by many of the mills, the playgrounds provided and all other features of mill life.

Here is an industry which has sat down supinely for years, permitting itself to be maligned and denounced, to the discredit of the whole South. Over and over again the MANUFACTURERS RECORD has warned the mill people that unless they did something to present their side of the case to the public there would come a time when they would pay the penalty of their indifference. They were urged to make a comprehensive exhibit of Southern mill products, mill operatives and mill villages at the Southern Exposition in New York, but they turned a deaf ear.

The American Federation of Labor through the Executive Council, in its report submitted to the recent meeting at Toronto, says:

"An outstanding development of the year is the awakening of the South. It came in a spontaneous revolt. * * * The Federation responded to their call for help by sending organizers to help direct efforts along constructive lines, and by appeals for financial support from all unions. * * * These workers in the South are poor and they have suffered much by the recent strike. It will take time to develop self-supporting unions. * * * It is the most opportune time for all organizations to strengthen their unions in the South. * * * We urge all organizations to include in their plans for the coming year definite provisions for work in the South."

The South must face the situation thus outlined, and it must face not simply this determined effort of the American Federation of Labor, but the more aggressive and dangerous work of the communistic element now at work in various parts of the South. Months ago we published a statement

showing that during the strike at New Bedford last year some of the communistic workers there stated they were preparing to "plant" communist families in various mill centers in the South, and that they had already sent one to Gastonia for the purpose of working up discontent among the mill workers. That is the spirit which is abroad in the land in a determination as far as may be possible to disorganize the whole labor situation of the South.

Last year when the American Federation of Labor met in New Orleans it announced that its plan for the coming year would be to try to organize the whole labor interests of the South. It has been aggressively at that work. Never was there a greater need for the maintenance of the American or Open Shop system throughout the South than at present. The desperate way in which the radicalism of the day seeks to enforce its demands on the country is shown in the frequent bombing of street cars in New Orleans without regard to whether or not these exploding bombs kill innocent passengers.

The South must meet this situation squarely, as Los Angeles had to meet it many years ago. It will be remembered that in Los Angeles because one of the leading papers of that city opposed radical labor union activities, the newspaper building was dynamited and many people were killed. That is the spirit of the radical element which the South must face. At present the efforts of radicalism to dominate are centered largely around the cotton mill interests of North Carolina, but if the people of that state have the backbone we think they have, they will show a sturdy independence and a determination that communism shall not rule their cotton mills, or any other industrial interests in the state.

The South must at the same time pay the highest rate of wages it can possibly pay, whether to cotton mill operatives or to any other class of workers. Low wages are always an injury to a community or to an industry. Many years ago, Edward Atkinson of Boston, a warm friend of the South, through the MANUFACTURERS RECORD often said that one of the great handicaps of the South was its low rate of wages, taking the ground that low wages in the end were always the costliest and that high wages in the end were always the cheapest wages. For humanity's sake, as well as from the economic standpoint, the MANUFACTURERS RECORD has for years constantly urged that the highest rate of wages which industry can pay should be paid to labor, whether in the South or in any other part of the country.

Months ago some of the leaders in the cotton industry asked the MANUFACTURERS RECORD if it would undertake to father a scheme for the right kind of publicity. We frankly

told them we would not; that they had waited until it was too late to do any good and they would have to pay the penalty until the time was right for presenting their case to the public. That time has come. The mill interests could well afford to spend not only a half million dollars, but several times that amount to carry full page display advertisements in the leading daily papers of the North and West and in many of the leading magazines, setting forth the actual facts in regard to conditions prevailing in these cotton mills.

Foolish charges of many kinds have been made against them. One recent statement of a public speaker was to the effect that if they could not pay higher wages than they were now paying the mills had better close down. "What fools these mortals be," who make such suggestions, not realizing that the closing of a mill would throw many people entirely out of employment. Another charge is made against the mills running at night, but if the mills did not run at night the number of people employed would be decreased by about one-half and thus thousands who now do make a living by night work would have nothing whatever to do.

There are in the cotton mills of the South tens of thousands of men and women of the highest type of character—thoughtful, conservative, honorable people. They are not among the strikers; they are not allied with that communistic element which has definitely announced at a joint meeting of negroes and whites that its aim is to overthrow the whole structure of industry in the South, to put the negro on a social equality with the white man, to put him into the labor organizations of the whites and carry out in this section—and that means in the country at large—exactly the sort of campaign wrought out in Russia, where the communistic element, by murdering several million of the leading people and by diabolical schemes of all kinds, has sought to destroy every vestige of the thought of religion, making Russia the shambles of the world. It is from Russia that all this vicious influence is coming. Some four years ago the MANUFACTURERS RECORD told of the plans which the leaders of the Bolsheviks have now begun openly to put into effect at Gastonia and elsewhere.

It may be a costly undertaking for the cotton mills to face this situation and by the expenditure of a large amount of money through wise advertising tell the full story of the blessings that have come to the cotton mill operatives by reason of the existence of these mills, but the story is one which if rightly told would appeal to millions of people now in darkness on the subject. They do not know that if these mills did not exist hundreds of thousands of people would be without food or a home or clothes. The cotton mill business from top to bottom is being maligned by the communists through the press of the country. Every socialistic agitator finds an opportunity to break into the daily papers to tell his story, largely fiction, about these cotton mill conditions.

The cotton mill owners of the South must have the backbone, the stamina, the vision—regardless of the cost—to meet this problem and to meet it at once, on a scale commensurate with the importance of their industry and with the necessity for spreading abroad the truth to the people of America.

A. P. Barrett, president of the Southern Air Transport, Inc., Fort Worth, Texas, in a letter to the MANUFACTURERS RECORD, writes:

"Your 'Industrialization of the South—Past and Present' is a great inspiration. No prophet can foretell, no genius picture the glories of the great civilization destined to arise in these imperial commonwealths south of the Mason-Dixon line.

"No single influence in America tends more to hasten the day when the South shall reach that proud position in the moral, religious, economic and business field her limitless possibilities entitle her to reach and hold, than your great magazine and your matchless leadership and inspired vision."

STATE-WIDE INVESTIGATION OF RE-SOURCES BY THE LOUISIANA CHAMBER OF COMMERCE

HERBERT BAYLISS, general manager of the Louisiana Chamber of Commerce, with Baton Rouge as headquarters, in a review of what is being done by that organization to bring to the attention of Louisiana people, as well as people of other states, the resources and advantages of Louisiana, discusses the work of that organization in an extremely interesting way. In the course of his letter, which is worthy of careful study by every similar organization in the South, Mr. Bayliss writes to the editor of the MANUFACTURERS RECORD as follows:

"The valuable work you have been doing, in an endeavor to spur the South to greater effort in an industrial way, and the urge for the people to take advantage of their natural opportunities, has held a tremendous appeal and I have been endeavoring to write you my appreciation for the service—both to Louisiana and to industry generally—through the presentation of some of the potentialities of the South.

"Your 'Presentation of the South' before the Institute of Public Affairs, University of Virginia, and later published in the MANUFACTURERS RECORD, is illustrative.

"The work of the Louisiana Chamber of Commerce is to create a state-mindedness among our people, so that the tremendous fund of natural resources that are the heritage of this great commonwealth may, through constructive thought and effort, be capitalized—to the end that the greatest possible prosperity will be returned to this generation, recognizing that the development of the state will strengthen the economic structure of all progressive centers of population and bring them added growth and prosperity.

"There has been much said, and written, during the past year about the fallacy of a community organizing a chamber of commerce for the purpose of securing new manufacturing plants, smokestacks, and to which presentation I heartily subscribe; however, I also earnestly suggest that this splendid advice should not prevent any community from organizing for the purpose of making a survey, an inventory of their resources and opportunities, to determine whether or not they would be justified in inviting manufacturing enterprises to locate with them.

"The proper sort of inventory would help every community with their agricultural and commercial problems and, possibly, show where a surplus would justify and maintain an industrial enterprise of which agriculture is the basis.

"This is why the Louisiana Chamber of Commerce has undertaken and nearly completed a uniform community survey as part of its industrial development program, which was endorsed at an industrial conference in February, attended by the directors of industrial development of all rail lines serving the state, representatives of all the power companies operating in the state, and representatives of financial institutions.

"In June, this organization sponsored an agricultural conference, termed 'the most outstanding meeting on agriculture ever held in the state,' and attended by the Commissioner of Agriculture of the State of Louisiana; executives of the extension department, Louisiana State University; the agricultural directors and their assistants of all rail lines serving Louisiana, and a number of bankers.

"This conference resulted in the appointment of a state-wide committee to formulate an agricultural program for Louisiana that could be subscribed to and cooperated in by all state agencies interested in agricultural development.

"The conferences referred to were the stepping-stones in our general development program; they brought together a thoroughly representative group of advisers, and are making possible a constructive and intelligent presentation of our resources and opportunities.

"The Louisiana Chamber of Commerce has recently been complimented by the Industrial Department, Missouri Pacific Lines, in its use of information furnished by the writer, and over his signature, as a basis for advertisements on Louisiana's resources—to appear in a number of national publications, including the MANUFACTURERS RECORD.

"These activities are Louisiana's cooperation towards the further industrial development of the South."

GOVERNMENT MUST MAKE GOOD ITS RESPONSIBILITY TO FLORIDA GROWERS

WHEN the Federal Government clamped an embargo on Florida fruits in its campaign against the Mediterranean fruit fly it destroyed the property and wiped out the incomes of many thousands of people. Indirectly it caused heavy losses to many thousands more who did not own a fruit tree, for the embargo precipitated runs on banks and caused the failure of many of them. That all of this was the result of the government's method of attacking the problem, and was not inherent in the mere presence of the fruit fly is shown by the fact, admitted by the Department of Agriculture, that the fly has been in Florida for three years, and it was only when the government exploded into violent action, without any promise of payment for crops confiscated, that havoc was wrought.

When New Orleans, fighting for its life in the 1927 flood, secured authority to dynamite the Poydras levee and flood other property to save its own, it did so only after giving assurance that the damage would be paid for. The analogy is not perfect, but the principle is the same. All parts of the state were represented in that decision, and the course adopted was such as to save the greatest interests from loss; but not at the expense of the smaller. The larger interests had to pay for their protection.

In the case of the fruit fly, all the states were represented by the Federal Government, and the course adopted was designed to protect the greatest number of people and the largest interests, but this protection was given at the expense of Florida. In this particular the government was utterly and indefensibly wrong. If it had announced at the time of promulgating the first restrictions that all crops held up or destroyed would be paid for, not only would the losses to individual growers have been averted, but no bank failures would have been precipitated. It is entirely too late for the government to repair the terrible losses inflicted on thousands of people not citrus growers; it is too late, even, for it to repair all the losses inflicted on citrus growers by its thoughtlessly drastic action; for bank failures multiplied the value of crops destroyed many fold. It is not too late, however, for the government to repay at least the value of the crops the Department of Agriculture has destroyed and will destroy in future; and that partial measure of restitution should be provided for as soon as Congress reconvenes the latter part of this month. The significance of the fight is national, not local.

THE WORLD'S GOLD SUPPLY

DISCUSSING our cover page editorial of October 10 on the question of the world's gold supply, W. P. Lay of Gadsden, Ala., and a number of others, have expressed their interest in this great question. Mr. Lay writes:

"I noticed your article on the front page of the MANUFACTURERS RECORD of October 10, 'World's Gold Supply Inadequate to World's Needs,' and want to commend you for sounding the alarm on this important situation. I have been a student on this line of economics for a third of a century, and I view our present situation with great apprehension.

"The great pyramidal debt built up by the world war dependent on the present gold supply, the measure of value, makes the world's financial situation top-heavy. I hope you will keep this situation to the forefront, to the end that some

action may be taken before evil effects of any consequence result."

A. A. Smith of Atlanta, Ga., writing on the same subject, says:

"Your editorial on gold is very interesting. If the Government would raise their standard to \$30 to \$32 per ounce for gold, there would be thousands of low-grade gold mines in the United States opened up at once, but at the low price of \$20 per ounce it has shut down hundreds of low-grade mines. I am one of the sufferers myself in California. I am glad to see you agitate this, and if you could get Congress and the Senate interested enough to raise the price of gold bars to a standard not under \$30 per ounce you would see things change very quickly in the mining business."

A HISTORIAN WHO FAILS TO UNDERSTAND THE SOUTH

SOME years ago a soil expert, studying the Sandhill region of North Carolina, was taken into a field by the owner to make a study of the soil, and examining it awhile under the microscope, he said: "Well, whatever this land may be good for, it will most certainly not produce cotton." To this the owner of the land replied: "That is very interesting to me, as this field produced an average of a bale an acre last year."

The story has often been told that when a Maine senator sent to Agassiz, the great naturalist, an unusually large specimen of a certain species of fish said to have been caught in a Maine lake, Agassiz replied that it was impossible for such a fish to have been caught in any lake in Maine, as that species never lived in those lakes. The next year, so the story goes, the Maine senator taking a friend with him, and fishing again in the same lake, caught a still larger fish of the same species. With the attestation of his friend to this fact, duly sworn to before a notary public, the fish was sent to Agassiz, who immediately wired back: "One fact has knocked out a bushel of theories."

It is a pity that Professor Ulrich B. Phillips, of the University of Michigan, although a Southern man by birth, could not have avoided in his new book, "Life and Labor in the Old South," making even more egregious blunders than the soil expert and Professor Agassiz. His book was awarded the prize of \$2500 offered by Little, Brown & Company "for the best unpublished work of American history."

It is to be hoped that the balance of the book, which we shall study a little later, is not as chock-full of mistakes as is the opening chapter, which undertakes to discuss the climate and the soil of the South. Professor Phillips states that in the South:

"The summers are not merely long, but bakingly hot, and in the droughts which occur at some time nearly every summer, when 'the sky is like brass and the ground is like iron,' all shallow-rooted vegetation is parched. Thus the country in general is not well adapted to grass or to the small grains except rice. The deficit of grass curtails cattle-raising." * * * "In the tedious heat work is hard, indolence easy; speech is likely to be slow and somewhat slurred; manners are soft; and except when tempers are hot, the trend is toward easy-going practices even among healthy people. But the climate has operated through the hookworm to make many half-invalid. * * * The soil virtually everywhere is accordingly the product of rocks disintegrated on the very spot or somewhere directly uphill or upstream. Most of the soils are thus mere sand and clay in varying proportions, with little or no lime and no humus except on the surface. The Southern rain seldom sifts but commonly pelts from a great height, and by its pelting packs any plowed surface.

"Swine tended to be razor-backs, for they rooted for their living in the woods, and on occasion saved their lives by their speed. 'Keep your hogs lean or the rogues will be fat'

and 'A poor hog is better than no hog' were proverbs with point in the black belt."

Much more of the same kind is to be found in this opening chapter, but these quotations are sufficient to indicate how little Professor Phillips is qualified to write of life and labor in the South.

If the heat of the South is of such a character as to make people languid, how happened it that in the Civil War, in the Spanish War and in the World War, Southern men made as effective, active and aggressive soldiers as the world ever knew? How was it, if Southern people were made languid by the climate, that for four years 600,000 Southern soldiers, lacking a navy, lacking adequate munitions of war and without a financial system, were able to hold back 2,800,000 Union soldiers, backed by a great navy, an abundant supply of ammunition and all the money that was needed to keep up an aggressive war? No greater reflection upon the stamina and fighting abilities of Northern and Western people could ever be made than to say that the people of the South were languid, for that would mean that even 600,000 languid soldiers held at bay 2,800,000 of the flower of the North and West.

Regarding the health of the South, Professor Phillips has evidently not studied the reports of the health authorities of the country, which show that many Southern states take the lead over all other states in the union in many respects on these points and that for two or three years in succession Mississippi girls were awarded at Chicago health shows the prize for being the healthiest among those entered from every part of the United States.

According to Professor Phillips, the South is not generally well adapted to grass or to the small grains except rice, but as a matter of fact many of the great dairying concerns of the North and West freely claim that the South is the best dairying section of America and are hotfoot in a race as to which one of these great concerns can build the largest number of dairying plants and cheese factories all over the South. Some kinds of grass, which are produced freely in the North and West, may not do so well in the South, but there are many other kinds of succulent, nutritious grasses that furnish an abundant feed supply for livestock. As to the swine, there are some parts of the South in which the razor-back hog is allowed to roam the woods and make his own living, but in many parts of this section swine equaling in every particular the swine in any other part of the United States are to be found.

In the same chapter Professor Phillips said:

"Great areas, particularly in the hinterlands of Wilmington, St. Augustine and Pensacola, were in their natural state too sandy to support any vegetation except what was extremely frugal in its food requirements." We leave to the people of the three cities mentioned the privilege of proving that that statement is wholly incorrect.

We suspect that a further study of "Life and Labor in the Old South" will show a good deal of misinformation on the part of Professor Phillips, but doubtless his book will be eagerly and widely read by many folks in the North and South. Much of it is probably true, as we hope to find in a more complete study of it, but the opening chapter will surely prove disappointing to every man and woman who knows the South and who is thus able to recognize the many errors that have been penned in that chapter at least.

A VACUUM

A LITTLE boy's definition of a vacuum as a "place from which everything has been pumped" admirably fits the condition of the bank account of many of us in this mundane world.

COMPLETION OF A GREAT PIER AT BALTIMORE SIGNIFICANT OF WIDESPREAD INTEREST IN RIVER AND HARBOR DEVELOPMENT

ON Saturday of last week the city of Baltimore and the Western Maryland Railway united in celebration of the completion of a pier costing \$8,500,000, which under contract the city had built for the railroad. The origin of this movement is interesting and shows how the great cities of the world are spending money freely to develop their harbor facilities.

Shortly after the big fire of 1904, Baltimore voted \$6,000,000 for erection of piers and wharves to be leased to steamship companies at a rate which, it was estimated, would pay the interest on the bonds and gradually amortize them. At that time this was regarded as a very large amount to be voted for that purpose. But things grow rapidly in these days and a few years ago Baltimore voted a bond issue of \$50,000,000 for development of harbor facilities, and the building of the pier was one of the big movements which came out of that decision. This new pier is leased for a long term of years to the Western Maryland at a rate which is estimated to pay the interest on the bonds and gradually amortize the cost. It gives the city one of the greatest piers in the country, and to the railroad it provides facilities which it could not possibly have secured for itself.

Other improvements will be made from time to time out of the \$50,000,000 bond issue, the bonds being issued as the city finds opportunity to make a profitable investment of the money.

This movement on the part of the city of Baltimore is in keeping with the spirit abroad throughout this country and in other countries, tending toward the largest possible development of all port facilities and to the development of waterways generally. Of necessity, inland waterways must be developed in this country by the Federal Government, and to this work President Hoover is thoroughly committed, and pre-eminently so to the development of every feasible waterway improvement than can be made in the South.

Some years ago in an address on the Pacific Coast Mr. Hoover said that every drop of water in our rivers which is not utilized is an economic loss. This loss he is trying to prevent and his recent movements indicate that he fully realizes the importance of the task before him and the magnitude of what the country must undertake in waterway development.

PROFIT IN CLOSE-TO-MARKET PRODUCTS

LIKENING the general process of distribution of manufactured products to a bucket-brigade, where the buckets are passed rapidly from hand to hand, the Industrial Bureau of the Chamber of Commerce, Atlanta, observes that it is up to the manufacturer to produce as close to his market as possible and to warehouse within quick delivery range of his trade in each major territory, speeding up his service all along the line. It claims a dual advantage for the South in this program, pointing out that the rich Southern market is spending its wealth with those who serve it best, and that manufacturing economies of the South are bringing a larger margin of profit to those manufacturers who establish in this section branch factories through which to serve the market better.

It is not doing the thing we like to do, but liking the thing we have to do that makes life blessed.—Goethe.

South Carolina May Revolutionize Health Conditions in Large Section of America

Discovery Through Intensive Research of High Iodine Content of Food Products Grown in State May Prove Great Boon to Humanity—Estimated 30,000,000 People in United States Suffer From Iodine Deficiency, and Goiter in Some Sections Has Become a Foremost Health Problem

By WILLIAM WESTON, M. D., Chairman, South Carolina Food Research Commission, Columbia.

NINETEEN hundred and twenty-six proved to be a notable year in the history of South Carolina, because in December of that year it was brought to the attention of the State authorities that vegetables grown in South Carolina contain a large amount of iodine. Had public announcement been made it would no doubt have created a sensation, but since the matter was a scientific one it was decided to pursue a scientific course in establishing the claim. Therefore, little was said except to the Governor and to the members of the General Assembly in whom was vested authority to provide funds for whatever work should be deemed necessary. Before definite plans were made, conferences were held with leading scientists, especially those who for many years had been engaged in research nutritional chemistry. Each with whom I consulted became enthusiastic and saw the vision of hope to millions of sufferers all over the world. They saw also the opportunity of putting the science of nutrition on a more practical basis.

It was decided to ask the legislature to establish a first class research laboratory for the purpose of examining carefully all foods such as vegetables, fruit and milk, grown or produced in South Carolina for their mineral elements. This plan met with the instant and enthusiastic support of Governor Richards and the great majority of the members of the legislature. A bill was prepared creating a commission, composed of the president of the University of South Carolina, the president of Clemson College, the dean of the Medical College of the State of South Carolina and two physicians to be appointed by the Governor. The two selected were Dr. R. R. Walker and the writer. The

commission met and elected myself chairman and Dr. Walker secretary. The following year the State Health Officer was added to the commission.

There was a great deal of preliminary work to be done and it was another year before a chemist with the qualifications we required could be found. Finally Dr. Roe E. Remington of the University of Minnesota was selected. He accepted and began the organization of a laboratory. Most of the highly technical equipment had to be specially designed and built; however, in the course of time the laboratory was ready to begin work. It was decided to establish the laboratory in connection with the Medical College in order that there should be available at all times the physiological and pathological laboratories necessary for careful research.

Work had not progressed far before it was discovered that both fruits and vegetables grown in South Carolina contained, when compared with analyses made in northern and western states, enormous quantities of iodine. As was to be expected, the amounts were higher in some sections than in others, but in all parts of the state the iodine content was most abundant. There was no chance of making an incorrect announcement because, before any result was announced, it was required to run the specimen in quadruplicate and these must agree. In many instances we had distinguished physiological chemists visit the laboratory and check the work. As showing the amounts of iodine discovered:

South Carolina spinach has been found to contain as much as 1178 parts of iodine per billion compared to 26 parts for the most prominent vegetable growing state. The average for the whole State of South Carolina is 625. South Carolina asparagus runs as high as 574 against California's 12.0; carrots, South Carolina, 466, California, 8.5. These comparisons run about the same for all vegetables. It has also been found that South Carolina grown vegetables contain

a large amount of iron, manganese and copper, all of them important in maintaining normal health.

The most surprising as well as the most important discoveries made in the South Carolina Food Research Laboratory have been by McClendon of the University of Minnesota and by Remington; namely, that where dairy cattle are fed the grasses grown here the milk contains enormous quantities of iodine and iron. When comparison is made between milk produced in South Carolina and in the great dairy sections of the United States, the results are startling in their disparity. As a matter of fact the milk produced in the states bordering on the Great Lakes contains very little iodine or iron. When it is considered that milk is the source of nourishment for all young animals, the importance of our findings becomes manifest. In the solution of the goiter problem these results are of outstanding importance.

It is not strange that discoveries made in our laboratory have aroused such universal interest not only among the scientists, but among the lay people of the United States, because goiter is our foremost public health problem. It is estimated that at least 30,000,000 people in the United States are suffering from an iodine deficiency. As iodine plays such an important role in the processes of nutrition, it can well be understood what direful effects the lack of it produces. Among the most significant of these effects are enlargement of the thyroid gland in the neck; lowering of mental and physical activity; birth of young which are stunted physically or mentally, producing dwarfs or idiots and sterility or failure to reproduce, the young born dead or surviving only a short time. This is a tragic outlook for the people of the goiter belt of the United States, unless relief is afforded by such discoveries as have been made in this laboratory.

These discoveries have brought other results besides changing the South Carolina system of agriculture and making

the growing and canning of fruits and vegetables an important industry. The General Assembly at its 1929 session created a Natural Resources Commis-

sion, composed of outstanding business and professional men. Upon it devolves the duty of carefully investigating all the natural resources of the state and

disseminating information concerning them. Much has already been accomplished in placing the state on a thoroughly scientific and progressive basis.

Other States Follow South Carolina's Lead in Investigation of Iodine Content of Fruits and Vegetables

IN the language of the day, South Carolina "started something" when through scientific research it discovered that the iodine content of its vegetables, fruits and milk was exceedingly high, providing a vital health factor.

As is shown in the foregoing article by Dr. Weston, 30,000,000 people are estimated to be suffering from iodine deficiency, which accounts for the fact that goiter in some sections has become the foremost health problem. In fact, goitrous diseases are so pronounced in some parts of the Middle West that the affected area has been labeled the "goiter belt."

In order to learn to what extent other Southern states were interested in the subject, the MANUFACTURERS RECORD inquired from each state as to what investigations were being made or contemplated. Replies received indicate that some of the states are awake to the importance of such an investigation and are actively at work in testing food products for their iodine content.

South Carolina is promoting the establishment of a canning industry to utilize its high iodine content vegetables, thus seeking to take advantage of the results of research to the fullest extent. Likewise, other Southern states which can show a high iodine content of food products will have an opportunity to expand their canning industries, and while aiding in supplying food of greater value in promoting health, the South will be placed in a position to give additional employment to its people in the enlarged scope of its food crops and their preservation.

To date Florida, following South Carolina, has done the most toward learning the possibilities of its food products. An "Iodine Convention" is being held in Bradenton this week and considerable interest is being shown in various parts

of the state. The latest information we have on the subject, supplied by Josiah Varn, chairman of the finance and publicity iodine committee of the Chamber of Commerce of Bradenton, shows that analytical tests on Florida grapefruit have averaged 423 parts of iodine to a billion parts dry basis; spinach, 519 parts; milk, 176 parts and Irish potatoes 293 parts. While this test showed spinach and some of the other products to be below the highest found in South Carolina, Mr. Varn is confident that more mature samples of the vegetables will prove much higher.

The MANUFACTURERS RECORD introduced the subject to Dr. John Harvey Kellogg of the Battle Creek Sanitarium, Battle Creek, Mich., and he writes in reply that "there is an immense amount of goiter in this region, doubtless due to the lack of sunshine as well as the lack of iodine, and I am interested in what you write in reference to Florida vegetables." Dr. Kellogg, as is generally known, has been planning to build in Florida a great sanitarium on the order of his Battle Creek institution, hence his special interest in Florida vegetables.

Dr. W. F. Hand, state chemist of the Mississippi Agricultural and Mechanical College, A. & M. College, Miss., writes:

"We are now engaged on the determination of the iodine content of several Mississippi vegetables. We hope that before long we will have some information to report."

Dr. J. Frampton King, state chemist of the Department of Agriculture, Atlanta, Ga., reports:

"I personally am very much interested in what has been done and is being done in the State of South Carolina. It is my plan in the near future in a limited way to go into the iodine content of Georgia products from a purely chemical standpoint."

T. B. Symons, Director, Cooperative Extension Work in Agriculture, College Park, Md., states that he has no specific facts to give but he feels that Maryland vegetables would naturally contain as much iodine as vegetables from South Carolina. However, he qualifies that assertion with, "We have no facts at the

present on which to base such a statement."

George W. Koener, Commissioner of the Department of Agriculture and Immigration, Richmond, writes:

"Virginia has sources of iodine as well as South Carolina, and our Division of Chemistry will make some investigation of the iodine present in the products of this state as soon as funds can be secured for the work."

Margaret B. MacDonald, biochemist of the University of Tennessee, Knoxville, states that:

"We have not done anything in regard to the iodine content of fruits, vegetables and milk produced in Tennessee, but we hope to have some data on the subject in the near future."

Thomas Cooper, dean and director of the College of Agriculture and Agricultural Experiment Station, Lexington, Ky., replies as follows:

"Analyses made at this station at various times indicate that iodine is quite widely distributed in small amounts in limestone rocks and is minutely present in forage crops and other food materials. Iodine has been found in the majority of spring and well waters from every part of the state that have been tested within the last four years, which indicates that the rocks and soils are fairly well supplied."

W. M. Allen, State Chemist, North Carolina Department of Agriculture, Raleigh, reports that North Carolina has made no investigation of the iodine content of fruits and vegetables, although he asserts that there has been thought of doing so, but the funds available are so limited it is almost impossible to do the work specified under the laws providing the funds to take up work of the kind suggested. He closes his letter, however, with the announcement that, "We may make some investigation along this line."

Among other Southern states which have done no work in investigating the iodine content of their food products are Texas, West Virginia, Missouri, Alabama, Arkansas; with Oklahoma and Louisiana not replying to our request for information.

Organized Industry Holds Annual Meeting

Open Shop, Southern Textile Situation, Tariff, Taxation Among Questions Vitally Affecting National Welfare Which Were Discussed at Thirty-Fourth Annual Convention of National Association of Manufacturers—President John E. Edgerton Re-elected for Tenth Consecutive Year

By WILBUR F. WAKEMAN.

New York October 16.

NATURALLY American manufacturers represent almost every condition necessary to the success, personal contentment and happiness of each one of us. In the three full days of diversity of thought and action of the thirty-fourth annual meeting of the National Association of Manufacturers at the Hotel Roosevelt here, there was consideration and discussion of almost every conceivable subject, giving inspiration to those present, and which will also give inspiration to all the members when they receive a copy of the official organ of the Association, "American Industries," for October, 1929, containing all the speeches at the convention and a complete record of the official action and reports of the various functions attendant thereto.

The convention opened with the consideration of the subject of the open shop, which included a report for the year's work by Noel Sargent, in charge of this department, and addresses covering the subjects of legislation, strikes, Southern textile situation and union discrimination. This led to the formal opening of the convention at a luncheon attended by the entire convention when the president, John E. Edgerton, delivered his annual address, which as usual was a masterly presentation of national conditions with important suggestions as to the future.

Silver Anniversary Luncheon

The Silver Anniversary Luncheon on Tuesday, in honor of members who had been with the association for 25 years, was most important in giving a thorough idea of a quarter of a century of effort. The historic milestones which these members of the National Association of Manufacturers have aided in erecting along the nation's modern industrial highway were presented in these words:

- Establishment of a Department of Commerce.
- Reform of the bankruptcy law.
- Improvement in the nation's consular system.
- The Panama Canal.
- The foreign Parcels Post system.
- Improvement of Inland Waterways where economically sound.
- Establishment of an American Merchant Marine.
- Foreign Trade Market protection.

- Non-partisan tariff administration.
- A national irrigation system.
- The Federal Reserve Bank system.
- Open shop campaign.
- Conservation of natural resources.
- Improved patent office administration.
- Court of patent appeals.
- Pure food law.
- Industrial education.
- Workmen's compensation laws.
- National Industrial Conference Board.
- "Made in U. S. A." campaign.
- National budget system.
- Platform of American industry.
- Conference of foreign ambassadors.
- "Get out the vote" campaign.
- Corporation and general tax reduction and reform.

Report of Committee on Resolutions

The report of the Committee on Resolutions, President Edgerton said, had been perhaps more carefully considered than ever before and would become the guiding chart of the organization until otherwise ordered. Report of the Committee on Resolutions was presented by S. P. Bush, chairman, of Ohio, and each subject reported upon was considered and voted upon separately, there being little discussion except upon the tariff and the flexibility of the tariff.

The action adopted on agriculture seemed particularly appropriate, and was as follows:

"The economic relation of agriculture and manufacture is especially intimate. The farm is a chief source of the raw material of the factory, a major consumer of its products and profoundly influenced by industrial research and applied invention. Sharing common institutions, a common political destiny, the farmer and the manufacturer must share each other's problems, for neither can possess prosperity at the expense of the other or suffer depression without injury to the other. Our agricultural industry deserves and should receive every adequate safeguard the protective tariff system may afford, sufficient credit facilities and generous appropriation for the extension of agricultural research and education, the fruits of which will increase the earning power of the farm."

As to "anti-trust legislation and administration," the association requested its president to "appoint a qualified

committee to study this subject in detail, and report with recommendations to the board of directors. The committee shall consider, among other things, the desirability and practicability of a system of official advisory opinions in matters arising under the anti-trust laws."

Extension of the Cuban parcel post was recommended; protection of the federal judiciary system strongly advocated; government in business was deprecated and opposed; and cooperation for national defense advocated, which was supplemented by the following:

"We strongly urge the enactment of legislation amending the National Defense Act in such manner that the purchasing branches of the military and naval services may, in their discretion, place 'educational orders' with private manufacturers for ordnance and supplies, non-commercial in character, during peace time, as an essential step toward industrial preparedness for the national defense."

Tariff Featured Discussion

Action was also taken on several subjects, including general taxation and transportation, including highways, waterways and aviation; but the only subject which had full discussion before the convention was the tariff. President Edgerton reviewed the history of the connection of the National Association of Manufacturers with the tariff question, and indicated that the protective tariff had been practically the moving cause in the organization of the association and he rejoiced that the association had always supported protection and now the flexible tariff in connection with its operation.

He referred with gratification to the lobby investigation by the United States Senate at Washington and indicated that the National Association of Manufacturers welcomes to the fullest extent investigation of its activities in connection with the tariff or any other subject. The investigation, he said, was a good thing; and he called attention to the fact that the Committee on Resolutions had not presented a resolution upon this subject and asked that the Committee on Resolutions supplement its report favorable to present proceedings of the United States Senate.

It is perhaps well to record the com-

plete action on the tariff, which was as follows:

"We rejoice that all political groups now frankly recognize the necessity for a protective tariff. We know that general Congressional revision, unduly delayed, tends to retard and, if long continued, embarrass the business program for the coming year. We therefore urge upon the Congress the speedy disposition of the pending tariff measure. Business can be seriously impaired by uncertainty.

Flexible Tariff Needed

"The necessity for a flexible tariff, permitting the adjustment of our tariff rates to changing economic conditions and shifts in foreign policy, is admitted by all parties. By the action of the Senate, it is proposed to repeal the system of administrative rate adjustment by the President, with the aid of a Tariff Commission, and substitute therefor Congressional action, upon the report of such Commission and the recommendation of the Executive. The proposal contains no promise or pledge of prompt committee consideration or Congressional action in any recommendation of rate adjustment. Its proponents rejected an amendment to assure Congressional action within six months. Its effect is to repeal the flexible provisions of the Tariff Act of 1922 and leave a recommendation for rate adjustment in the same position as thousands of other proposals for Congressional action.

"The delicacy and complexity of tariff adjustment, the innumerable duties devolving upon Congress with respect to annual appropriations, and many critical political problems, the fact that every other year it is not in session for nine months, all conspire to make such a method of proposed adjustment incapable of assuring practical flexibility.

"We are convinced of the validity and economic necessity of Executive rate adjustment, with the aid of a qualified Commission. We urge the retention of that policy, improvement of the administrative provisions, superior qualification for Tariff Commissioners, their greater independence by lessening partisanship, enlarging compensation, and developing the Commission as a fact-finding, semi-judicial body, performing an essentially economic function in relation to a business, and not a political problem. We join with agriculture, commerce and labor in urging the retention of administrative as distinguished from legislative rate adjustment of the tariff."

While the report of the committee was adopted, the general discussion was directed more to the national policy of protection than to the flexible tariff and the recent action of the United States Senate. Possibly the most interesting thought on this subject was presented by Henry Van Riper Scheel, vice-president of Botany Consolidated Mills, Inc., of Passaic, N. J., who presented the thought that a tariff should be based upon the conversion cost. Mr. Scheel said:

"The amazing fact is that a tariff law is nullified as soon as it is written. The tariff begins to bob up and down, even before Congress takes its hands off the bill and it becomes a law.

"A 50 per cent tariff may be 50 per cent when the schedule is written but before Congress gets around to the job of revising the law again it may be up

to 80 or down to 20 per cent. While it is generally assumed that Congress controls the tariff duties, the fact is that forces which are completely ignored, continually upset the tariff law.

"The following may be said to be the average differences between American and foreign manufacture in weaving textiles:

	American	Foreign
Raw Material	30	70
Conversion Cost	70	30
	100	100

"Raw material goes down 20 per cent. The American shaves off his price one-fifth of 30 or 6; the foreigner one-fifth of 70 or 14. The foreigner's goods now cost him 100 minus 14 or 86 while the American cost is 100 minus 6 or 94."

The whole thought of conversion costs as the basis of tariff rates is that wages here and abroad remain practically the same, while raw materials go up or down and thus destroy any rates of duty provided by the Congress. Naturally the Scheel proposition is an important one. It was not included in the resolutions but commanded very general attention.

The convention closed with the annual banquet, at which the Honorable Silas H. Strawn, of Chicago, presented a really remarkable address, touching upon American development, American stability and the future of the country. Our success was attributed largely to the protective tariff.

The following officers and directors were elected for the ensuing year:

President, John E. Edgerton, Lebanon, Tenn., re-elected for the tenth consecutive year term

Treasurer, Henry Abbott, Calculagraph Co., New York

General Secretary, J. Lewis Benton

Vice-presidents and directors:

California—Watt L. Moreland, Moreland Truck Co., Los Angeles

Connecticut—Henry Trumbull, Trumbull Electric Mfg. Co., Plainville

Illinois—A. J. McKay, Matthieson & Hegeler Zinc Co., La Salle

Indiana—G. M. Williams, Marmon Motor Car Co., Indianapolis

Iowa—M. E. Finck, Murray Iron Works Co., Burlington

Mass.—Clifford S. Anderson, Norton Co., Worcester

Michigan—John Trix, American Injector Co., Detroit

Missouri—Robert L. Lund, Lambert Pharmacal Co., St. Louis

New Jersey—C. R. Burnett, American Oil & Supply Co., Newark

New York—H. L. Derby, The Kalbfleisch Corp., New York

Ohio—Charles B. King, Marion Steam Shovel Co., Marion

Penn.—Charles J. Webb, Charles J. Webb & Co., Inc., Phila.

Rhode Island—Wm. L. Sweet, Rumford Chemical Works, Providence

Tennessee—I. B. Merriam, Chattanooga Boiler & Tank Co., Chattanooga

Wisconsin—W. W. Nichols, Allis-Chalmers Mfg. Co., Inc., Milwaukee

Vice-presidents:

Alabama—J. L. Kaul, Kaul Lumber Co., Birmingham

Delaware—Joseph Bancroft, Jos. Bancroft & Sons, Wilmington

Georgia—H. M. McCulloch, Peerless Woolen Mills, Rossville

Kentucky—W. Hume Logan, The Logan Co., Louisville

Maryland—J. F. Hindes, Emerson Drug Co., Baltimore

Nebraska—J. L. Baker, Baker Ice Machine Co., Inc., Omaha

Oklahoma—M. O. Matthews, Oklahoma Portland Cement Co., Ada

Directors-at-large:

Ohio—S. P. Bush, American Rolling Mill Co., Middletown

Ohio—P. O. Geier, Cincinnati Milling Machine Co., Cincinnati

New York—Frank Lovejoy, Eastman Kodak Co., Rochester

Wisconsin—George Vits, Aluminum Goods Mfg. Co., Manitowoc

Connecticut—C. E. Whitney, Whitney Manufacturing Co., Hartford

New York—B. L. Winchell, Remington Rand Inc., New York

Alabama—Hugh Morrow, Sloss Sheffield Steel Co., Birmingham

South Carolina—B. E. Geer, Judson Mills, Greenville

Illinois—E. B. Leigh, Chicago Railway Equipment Co., Chicago

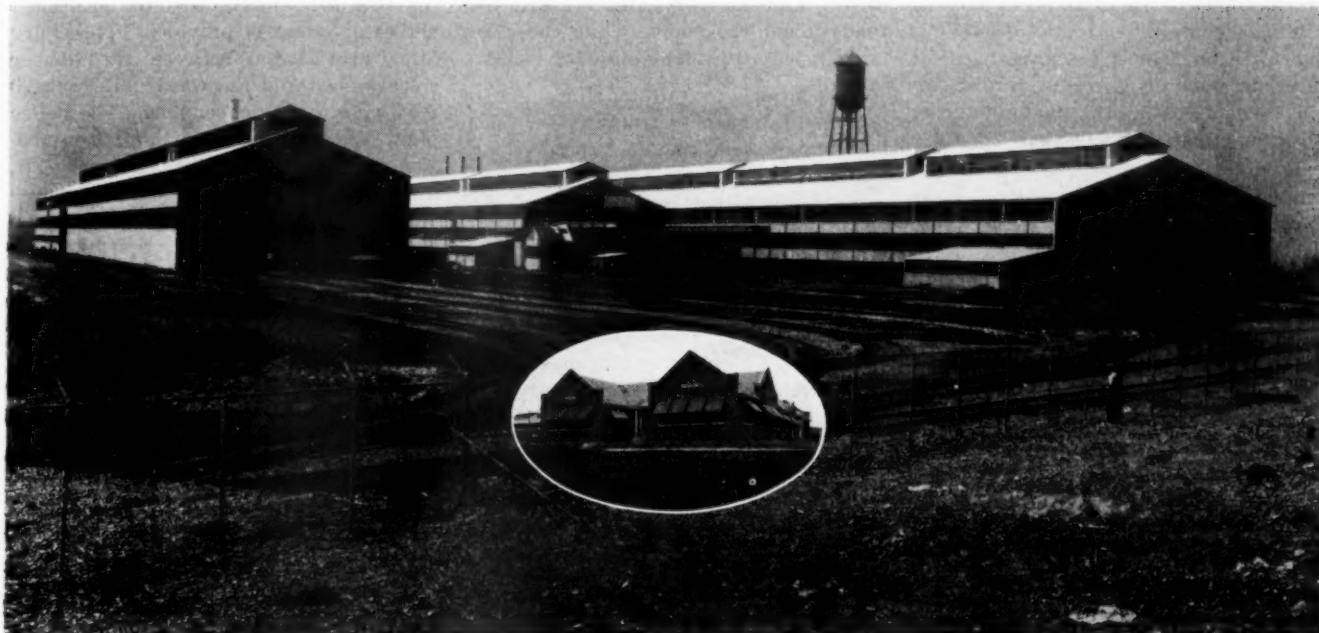
New York—O. J. Frost, Champlain Silk Mills, New York City.

SEABOARD AIR LINE ADJUSTMENT PLANS

Group Formed to Purchase Warfield Holdings—1,900,000 Shares Common Stock Offered Stockholders

Marking an advance in the readjustment plans of the Seaboard Air Line Railway, directors of the company have formed a group to purchase \$10,000,000 of the road's securities, this action being subject to the approval of the Interstate Commerce Commission. It is understood that the securities which the group plans to purchase include the holdings of the late S. Davies Warfield, former chairman of the board and president of the railroad. Directors have agreed upon a policy, it is said, that will involve the retirement through voluntary exchange of approximately \$22,300,000 of 5 per cent adjustment bonds, accumulated interest on which amounts to about \$4,500,000, and the issue in their stead of \$11,150,000 consolidated 6 per cent bonds and about 330,000 shares of new common stock of no par value.

Directors also voted to offer stockholders approximately 1,900,000 shares of new no-par common stock at \$12 per share to produce about \$20,000,000 new stock. Application for formal approval of the plan and the issue of new securities has already been filed with the Interstate Commerce Commission, which has also been asked to approve the election of W. H. Coverdale, of Coverdale & Colpitts, chairman of the board, succeeding Robert L. Nutt, who plans to retire but will remain a director. Upon completion of the reorganization plans, the common stock of the road will have been changed from \$100 par value to no par value.



Plant of Pullman Car and Manufacturing Corporation at Bessemer. Inset Shows the Office Building

Pullman Car Shops in Operation in Alabama

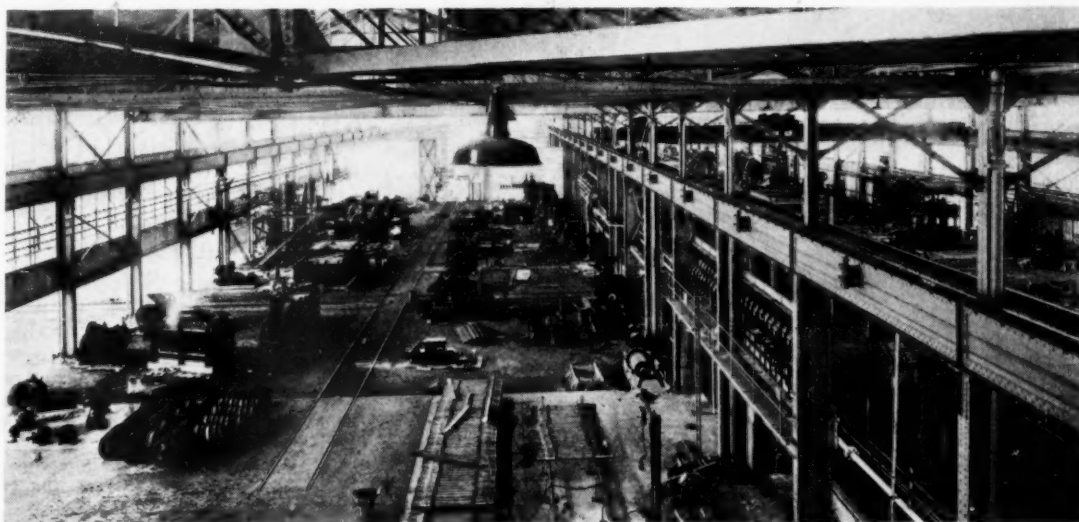
In 188 working days the new car manufacturing plant of the Pullman Car and Manufacturing Corporation was constructed at Bessemer, Ala., near Birmingham, the plant being placed in operation in September. Within a short time it is expected that freight and refrigerator cars will be manufactured at the normal capacity of the plant. Orders now on hand include 600 cars for the National Railways of Mexico, 500 gondolas and 10 flat cars for the Central of Georgia Railroad and 450 steel underframes for the Nashville, Chattanooga & St. Louis Railroad, while bids are out on cars for other Southern railroads, expectations being that by the end of the year sufficient orders will be

on hand to insure operation of the plant indefinitely.

The project was designed and erected by the United Engineers & Constructors, Inc., of Philadelphia and New York, construction progressing as plans were developed. Work was done in cooperation with and under the supervision of the Pullman organization, of which C. A. Liddle is president; W. N. Oehm, works manager, and F. O. Reemer, Southern representative. Site of the new plant was formerly occupied by the blast furnaces of the Tennessee Coal, Iron & Railroad Company, with depressed tracks and pits, coke ovens and slag dumps, and in view of its condition 158,000 yards of grading was required.

Ground was broken on February 14 and construction completed September 19.

The three main groups of buildings in the plant are: First, the steel shop group with a steel fabricating and erecting shop, 102 by 1464 feet; machine, forge steel and truck shop, 90 by 600 feet, and various small buildings. Second, the wood shop group, embracing a lumber storage shed, canopy, dry kilns, wood mill, wood erecting shops, etc. Third, the paint shop group consisting of a paint shop, 70 by 400 feet, and paint mixing building; both of these were a portion of a plant 15 miles away, moved to Bessemer and erected. In addition there are a general office building and auxiliary buildings. The entire



Interior View of the New Car Shops

plant occupies a site of 25 acres and the buildings contain a total of 418,000 square feet of floor space. Arrangement and dimensions of each unit permit certain innovations in car manufacturing and heavy material handling.

Sanitary sewer facilities have been installed, main connections discharging into the city sewer system. Plant waste, such as compressed air drips, steam drips not returned to boilers and other wastes are taken care of by dry wells where rapid seepage is obtained through coarse slag fill. City water is piped throughout the yard and fire protection lines loop the plant.

By-product gas has been piped to the plant by the Woodward Iron Co. for use in firing the boilers, heating miscellaneous buildings and firing the plate and rivet heating furnaces. Gas entering the sub-station is compressed to 25 pounds per square inch and distributed throughout the shops of unit No. 1 for furnace firing. Compressed air is run underground from the sub-station to various shops, and airlines are extended along out-going tracks. A pipe tunnel is provided between the sub-station and unit No. 1 for carrying service water, high-pressure gas, compressed air, etc. The Birmingham Electric Co. has installed a connection to its sub-station, the latter being equipped with three 1250 KVA transformers for reducing the current to 2300 volts for delivery to the Pullman sub-station. There are approxi-

mately 1¼ miles of rolled crushed slag roads about the shops, while the plant is equipped with eight miles of track.

Foundations for all buildings are of concrete, and superstructures of shop buildings, except rebuilt structures, are designed with a structural steel frame, corrugated galvanized copper bearing steel siding and roofing of Johns-Manville corrugated Transite, except the template shop, which has a wood roof deck covered with built-up tar and gravel. Rebuilt structures have steel frames, metal siding and steel sash. In the various building units floors are of crushed slag, creosoted wood block, hardwood and reinforced concrete, with brick around the furnace in the fabricating shop. Two pits, 2.6 feet deep by 288 feet long, are provided between the rails of the erecting shop in unit 1 for use in assembling hopper-bottom cars and a pit 2.6 feet deep by 35 feet long will be used for maintenance work in the machine shop.

The general office building is a one-story structure, isolated from the main plant and different in architecture and construction from the shop buildings, and provided with large sash openings for natural lighting. The sub-station has a basement floor at an elevation 12 feet below yard grade and a mezzanine floor at the same elevation as units 1 and 2. Electrical equipment is on the mezzanine while the accumulator, pumps, compressors and miscellaneous equipment are on

the basement level. A 5-ton overhead traveling crane is provided. Three dry kilns are located between the lumber storage shed and the wood mill, each 20 feet wide and 120 feet long. The boiler plant is operated primarily in conjunction with the wood mills and dry kilns, and equipped with two 250 horsepower water tube boilers. Heavy duty machine tools, hydraulic presses, steam hammers and sub-station equipment are set on concrete foundations carried down to natural grade or rock. Lighter tools are set directly on reinforced concrete floors or concrete pads, 12 to 36 inches thick.

The shops have a capacity of 25 freight cars daily, the straight line station-to-station method of construction being used. Material is moved longitudinally through the shops by means of overhead traveling cranes and most of it is worked through units 1 and 2, from south to north.

National Builders' Supply Association

The next annual convention of the National Builders' Supply Association, New Orleans La., will be held in Memphis, Tenn., December 9 and 10. This will mark the eleventh annual convention in the life of the Southern Association and a large attendance is expected. Not only are members of the association expected to attend, but all legitimate dealers in building materials are invited.

Southern Apples

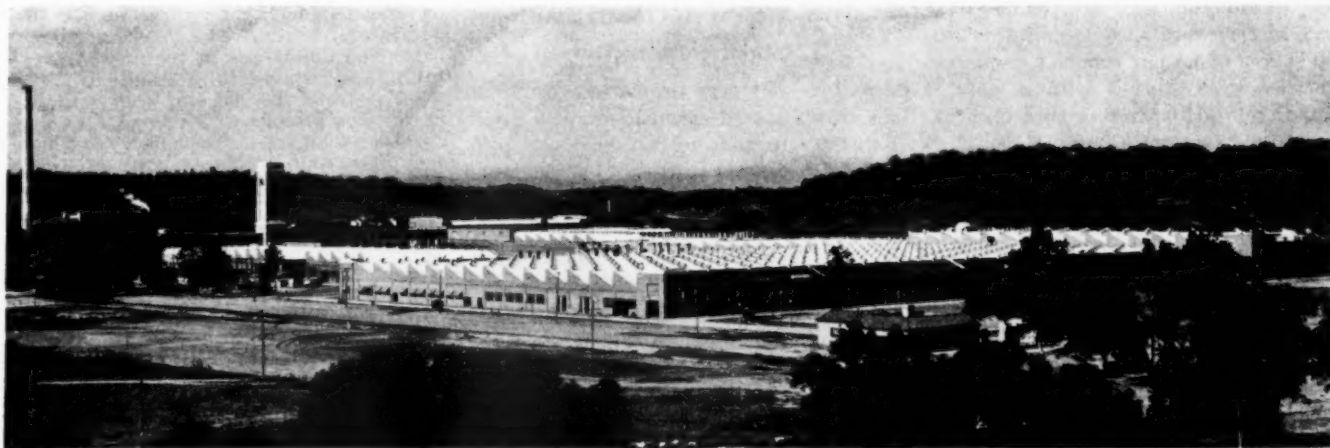
by the

Ship Load



Full Cargo of Virginia Apples Being Shipped From Norfolk to South America

The Norfolk-Portsmouth Chamber of Commerce states that through united effort a large share of Virginia's fruit trade now passes through Hampton Roads for the markets of the world. Growers of the Southern states received nearly \$20,000,000 for their 1928 commercial apple crop.



American Enka Plant Near Asheville, Now in Production

\$10,000,000 Rayon Plant in North Carolina

North Carolina has another important addition to its industrial life in the recently completed \$10,000,000 rayon manufacturing plant of the American Enka Corporation on a 2000-acre tract about three miles from Asheville. When in full operation this plant will have a total annual payroll of \$6,000,000, and will consume approximately 50,000 tons of coal and 125,000,000 kilowatt-hours of electricity for the production of 9,500,000 pounds of rayon yarn.

The main plant, distributed over 75 acres and containing 1,000,000 cubic feet of floor space, includes chemical, chemical storage, spinning, spinning bath, washing and drying, twisting, finishing, turbine, and boiler buildings. All these structures are of one-story, sawtooth construction, except the chemical building which is three stories high and the twisting building, two stories. Laboratory, cafeteria, stores and filter plant are housed in other structures.

The series of main plant buildings is laid out in the shape of an "L," 1500 feet long on one dimension, nearly 1000 feet in length on the wing structure, and 330 feet wide. The structures are of steel, concrete and brick, ornamented with stucco and brick; a long span, sawtooth roof is 82 feet between columns and has a row of sash every 28 feet. Single glazed sash to withstand corrosive fumes was used, provision being made for double glazing at a later date. Roof deck is constructed of three-inch grooved and splined yellow pine and is overlaid with a one-inch layer of cork and a built-up waterproofing. Special painting of the reflecting surfaces will enhance the lighting. To allow for settling of the filled ground and because of the alluvial nature of the soil on which the buildings are located, 85,000 lineal feet,

or 3500 individual piles were driven to support the foundations.

The power plant, providing electric power in addition to that purchased from the Carolina Light and Power Co., is equipped with two 500-horsepower Stirling boilers fired by Riley stokers. In the turbine room are installed two Allis-Chalmers 2000-kilowatt turbines to generate current at 550 volts. The filter plant with its daily capacity of 5,000,000 gallons will provide water, the city of Asheville to supplement this by extending its mains to the property.

Ten million brick and 7000 tons of structural steel were used in the various buildings. Contract for roofing is said to be the largest of its kind let last year. Over 22,000 lineal feet of sawtooth roof construction covers the plant and 200,000 square feet of sash is used in the sawtooth roof construction for lighting. About 3,000,000 feet of long leaf yellow pine and 500,000 square feet of glass were used in this connection.

A new 185-foot bridge carries the railroad into the grounds upon which are located six permanent sidings totaling about two miles in length. Two miles of roadway encircles the plant and joins with the main highway to Asheville.

More than 500,000 cubic yards of excavation was required in preparing the plant site, a large portion of this work being involved in changing more than a mile of the course of Hominy Creek, which crossed the site. Seven pieces of excavating equipment, including two Thew and one Osgood steam shovels, two Thew gasoline shovels and a Lorain 75 dragline, were utilized. About 15 miles of sewer and water lines were laid. All excavation for the sewers was done by a Universal 35, mounted on a center drive crawler and equipped with an Owen half-

yard digging bucket. In laying the sewer pipe, quicksand was encountered, necessitating the laying of about 25 per cent of the pipe on concrete mats. Several thousand feet of redwood pipe was used in the water lines. Sewer backfilling was accomplished by the Universal 35 and a motor truck crane of the same make equipped with an Owen clamshell bucket.

A model village of about 100 dwellings was erected on the wooded hills overlooking the plant at a cost of \$325,000. Eighty-nine of these houses were designed in the Charlotte office of Lockwood Greene Engineers, Inc., and the other eleven, officials' residences, in the office of W. W. Dodge, Asheville architect. There are 15 different designs. Roads and streets in the village were built under the supervision of Charles E. Waddell & Co., engineers. It is the plan of the corporation to hold the number of houses in the village at a low figure, thus encouraging the erection of homes by individuals and by development companies.

A period of nine months elapsed from the beginning of excavation to the time of lighting the fires beneath the boilers of the mammoth plant. Construction was so arranged that as soon as a building was completed it was turned over to the Enka officials for installation of equipment. Special attention was directed to design of the buildings to secure the most pleasing appearance; for example, the ornamental water tower contains a large clock and is designed to resemble a clock tower. Other features are the pipe bridge, 400 feet long, connecting three of the buildings, and the 250-foot smoke stack of radial brick construction.

The American Enka Corporation, controlled by the Enka Artificial Silk Com-

pany of Holland, was incorporated May, 1928, in Delaware with a capital of 500,000 shares of no par common stock. Operations were started with a paid in capital of \$15,000,000. Directors are Frederick W. Allen, George H. Burr, O. L. Alexander, Franklin D'Olier, P. R. Rockefeller, Philip Stockton, F. H. F. Van Clissingen, H. C. McEldowney, and Jacques C. Hartogs. Mr. Hartogs is also president of the corporation. A. J. L. Moritz, vice-president and technical manager, and J. M. Van den Bosch, chief building engineer, were in charge of constructing the new plant, with W. J. Lubberheizen, chief mechanical engineer, in charge of planning and equipping the factory.

The H. K. Ferguson Co., Cleveland, Ohio, handled design and construction of all buildings, roadways, sewers and roads and also attended to grading. Lockwood Greene Engineers, Inc., New York, were consulting engineers on all construction and design and supervised installation of power and filter plant, electrical and mechanical equipment of the buildings, and also assisted the owners in placing contracts for the machinery, most of which was purchased in this country with exception of several special machines brought from Europe. The Nichols Contracting Co., Atlanta, handled excavation work; sewer construction was done by Reed and Abee, Inc., Asheville; the Townsend Lumber Co., Anderson, S. C., erected 84 brick and five frame houses, and Jones & Edney, Asheville, erected the officials homes.

The following were among those who furnished equipment and material:

Air compressors and vacuum pump.—Chicago Pneumatic Tool Co. New York
Boilers and superheaters.—Babcock & Wilcox Co., New York.
Filter plant equipment.—International Filter Co., Chicago
Machinery and tool for carpentry, machine and blacksmith shops.—Sutton-Osborne Supply Co., Asheville
Refrigerating Equipment.—De la Vergne Machine Co., New York
Reinforcing Steel.—Knoxville Iron Co., Knoxville, Tenn.
Roofing.—Johns-Manville Co., New York, through W. H. Arthur Co., Asheville.
Skylights (Sawtooth).—W. F. Overly & Sons, Greensburg, Pa.
Steel and iron.—T. L. Talbert Iron & Steel Co., Inc., Charlotte, N. C.
Stokers.—Riley Sanford Stoker Co., New York
Structural Steel.—Virginia Bridge & Iron Co., Roanoke, and Pittsburgh Bridge & Iron Works, Pittsburgh
Tanks, redwood pipe and vats.—Little River Redwood Co., Crannell, Calif., and New York
Turbines.—Allis-Chalmers Manufacturing Co., Milwaukee, Wis.

\$300,000 Church for San Antonio

San Antonio, Tex.—Plans are being prepared by C. L. Monnot, Oklahoma City, for a \$300,000 church building here for the Shrine of the Little Flower at Zarzamora street and Kentucky avenue, of which Rev. Edward Soler, O. C. D., is the pastor. It will be in charge of the Carmelite Fathers.

Fast Work on a Great Southern Construction Job

A terse but very dramatic account of the planning and construction of a great industry, written by an engineer intimately associated with the job, is contained in the September number of Cross Section, house organ of the H. K. Ferguson Company, Cleveland, Ohio, H. J. Hassler, assistant chief engineer of the company, is author of the article. He says:

"It was a little over a year ago that the officials of the great Dutch Enka Corporation landed at New York. They came to establish in this country a plant to supply the growing demand for rayon. With care and with the directness that has characterized every subsequent move of these able men, they investigated 52 possible sites and made a survey of the engineering and construction organizations of the country.

"Early in September of 1928 they decided upon Asheville, N. C., as the home for their new plant, and selected the H. K. Ferguson Company to design and build the buildings. Lockwood-Greene, Incorporated, were chosen as consulting engineers on plant layout and equipment.

"It was on September 23, 1928, that the contract with our company was signed and the word was given to go ahead. Not a drawing had been made. Engineering work started the same day. The next day saw Ferguson construction men at the site. On October 1 the ground was broken. From that day forward every operation of engineering and construction proceeded under a single directing head who contacted with

owner's engineers and directed our organization. Executives of our company organized the details of the great undertaking so successfully that in nine months from the date of the contract, rayon was produced. In 11 months our work was finished at a substantial saving under the estimated cost."

Communists Plan to Enter Alabama

An announcement in the Daily Worker of October 9 states that "Alabama will be a base of the coming great struggle of the Southern mill workers led by the National Textile Workers' Union against their exploiters. Gadsden, Ala., is a mill town owned lock, stock and barrel by the Goodyear Rubber Company, seeking 'cheap labor.' The Goodyear Company recently opened up a huge mill in Gadsden, in which 3000 workers slave."

In calling attention to the foregoing item in the Daily Worker, the communist organ, the American Vigilant Intelligence Federation says:

"Apparently there will be a concerted effort on the part of the National Textile Workers' Union to duplicate the Gastonia, N. C., situation in Alabama." The Federation emphasizes the fact that "the communists' penetration of the South has advanced with great rapidity. This should be a most decided warning to Southern industries to unite immediately to purge the South of communism before it gains too solid a foothold."

A Memorial by Cotton Mill Employes to Founder of the Calloway Mills in Georgia

With the recent unveiling at LaGrange, Ga., of a memorial to the late Fuller E. Callaway, one of the most unusual monuments in industrial America was dedicated. The idea was conceived by a mill employe and the memorial tower was built from money contributed for the purpose by operatives of the Callaway Mills.

The memorial, which cost \$10,000, is a watch-tower and aerial beacon, 97 feet in height, located at the highest point of land near LaGrange. It was designed by Ivey and Proof, after the Campanile of St.

Mark's in Venice, and carries a two-dial clock, as well as an aerial beacon to guide aviators to Callaway Field, LaGrange's airport, two miles away. It is surrounded by an 8-acre park.

Fuller Callaway was a leader in improving the working conditions of operatives, one of the first mill owners to provide model villages with parks, community houses, swimming pools, gymnasiums, etc., for use of the workers. He made his operatives co-workers with him in the various enterprises he established, and set a splendid example, followed by hundreds of other Southern textile mills.



97-Foot Memorial Tower and Aerial Beacon

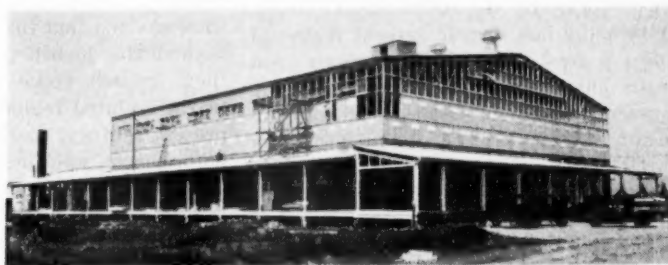
Progress at Lubbock, Texas

Lubbock, Texas, with an estimated population of 22,000, reports \$2,898,513 in building permits for the first eight months of this year. Of the total, 74 projects are now under way, representing an expenditure of \$1,089,050 and including many residences, and it is announced that several important buildings are to be started in the near future. These include the \$600,000 high school for the Lubbock Independent School District, designed by Peters, Strange & Bradshaw; an educational building to cost approxi-



\$600,000 Senior High School Building to Be Erected

**\$200,000
Poultry and
Egg Plant
Recently
Completed**



Bank, H. H. Shell & Son, contractor; \$25,000 business building for A. L. King, W. E. Bullard, contractor, and a \$10,000 residence for E. B. Adcock, E. E. Agnew, contractor.

Recently completed undertakings include the \$200,000 poultry packing and creamery plant erected by W. G. McMillan, Lubbock contractor, for the Lubbock Poultry & Egg Co., and a \$200,000 underpass constructed by the Panhandle Construction Co.



**Five Stories Are Being Added to the
Hotel Lubbock**

mately \$100,000 for the First Baptist Church, and an underpass to be constructed jointly by the municipality of Lubbock and the Panhandle and Santa Fe Railway.

Important buildings now under construction include a \$400,000 hotel for the Hilton Hotel Co., Dallas, R. E. McKee, El Paso, contractor; a \$222,050, five-story addition to the Hotel Lubbock, W. G. McMillan, contractor; a \$75,000, three-story garage for the South Plains Investment Co.; a \$36,500 three-story building for Clowe Plumbing Co., D. N. Leaverton, Lubbock, having contract for both structures; a \$32,000 three-story store for W. A. Bacon, J. B. Maxey, contractor; \$30,000 store and hotel for Lon A. Mullican, to be leased to Rix Furniture Co., Tom Jackson, contractor; \$30,000 remodeling of Citizens National



\$400,000 Hotel Hilton Under Construction

60-Mile Transmission Line in Progress.

Outlining details of a power transmission line which it is building between Jackson and Durant, Miss., a distance of 60.06 miles, the Mississippi Power & Light Company, Jackson, advises that construction is of the wood pole type, H frame, using wood guy insulators on all guys and pole arcing horns on all guyed structures, with an average span of 600 feet. Poles are of creosoted Southern yellow pine, 50 feet minimum

length, with cross arms, anchor logs and wood guy insulators 3½ inches by 3½ inches by 20 feet, also creosoted. The work is being done by the Phoenix Utility Company, New York. Other contracts have been awarded as follows:

Conductor (4/0 ACSR)—Aluminum Company of America, Pittsburgh, Pa.

Hardware—Line Material Company, South Milwaukee, Wis., and Joslyn Manufacturing & Supply Co., Chicago, Ill.

Insulators (10-inch discs, 6 to string in suspension and 9 on dead ends)—Locke Insulator Corp., Baltimore, Md.

Insulators and arcing horns—Joslyn Manufacturing & Supply Co.

Line connectors and dead end clamps—Aluminum Company of America.

Suspension clamps—R. Thomas & Sons Co., Lisbon, Ohio.

Big Dallas Bank Merger

Dallas, Tex.—One of the largest mergers of financial institutions ever effected in Texas involves the consolidation of the North Texas National Bank and the Republic National Bank and Trust Company, both of this city. The consolidated institution will operate as the Republic National Bank and Trust Company, with capital, surplus and undivided profits of \$6,500,000 and deposits of more than \$50,000,000. Resources will be in excess of \$60,000,000, it is said.

The Mid-Appalachian Country and Its People

Great Changes Wrought in Recent Years in Customs and in Habits

By CHARLES CARPENTER, Gassaway, W. Va.

THIS mountain land, known as the Mid-Appalachian country, which comprises the southwestern portion of Virginia, southern and central West Virginia, and eastern Kentucky and north-eastern Tennessee, until recent years was an isolated section sandwiched away in our midst in a way almost as remote as some country in another continent. The effect of this peripheral isolation was that the people of these mountains were thrown back on themselves and developed traits which made them a people of local character. To speak of one as a "mountaineer" of the Mid-Appalachian country was to set him in a class apart.

In the span of one generation these mountain inhabitants, as a whole, have changed their ways of living and prac-

began, the development of these coal deposits took the railroad into many outlying sections. And wherever these railroad lines were built changes followed.

There are some sections of the Mid-Appalachians that have not been reached and will not likely be reached by the railroad; but the automobile is sweeping away old conditions, bringing good roads where formerly only rough trails existed. Within the last decade several thousand miles of good highway and passably good roads have been built. The automobile is seen now where formerly it was impossible to get a wheeled vehicle of any sort through, and where the chief mode of transport was the pack-horse and the husky shoulder of the mountaineer, and where the United States mail, what little there was of it, was carried in saddle pockets. In many places now a distance can be covered in three or four hours where not so many years ago it required as many days. There are sections in the Mid-Appalachians, of course, where because of the lack of natural resources, one can still find somewhat primitive conditions, but these sections are comparatively small and even they are not what they were a few years back.

One often comes on the statement that in the Mid-Appalachians "the people live as their forebears have lived for generations and changes have not affected them" or some similar statement. This assertion has, in fact, become a sort of a legend. As a class the mountain in-

habitants of former days looked upon many things from a viewpoint that seems peculiar to most of us today. Things that were prohibited by statute the mountaineer did without fear of molestation; in fact, every mountain dweller did about what he pleased so long as it did not interfere with the rights of some other individual, thinking there should be a rightful limit to the powers of legislative bodies, and if laws were enacted that they considered rightly beyond the jurisdiction of these bodies they ignored those laws. Everywhere in the isolated regions, well up into the present century, there was a limited law enforcement, and in some sections a very limited enforcement. It was a sort of general assumption that officers were chiefly collectors of taxes and recorders. This has all changed; the mountain in-



Modern Concrete Highway of the Mid-Appalachians

tically have lost their local character. These changes have been brought on through the coming of transportation and modern means of communication where there had been almost none, and in the incidental breaking down of the seclusion it was natural that there should come significant changes in ways of living and in the people themselves. The thing to bring the first definite change was the railroads built for the transportation of coal. There are deposits of bituminous in practically all the Mid-Appalachian country, and when the great national industrial expansion at the close of the nineteenth century



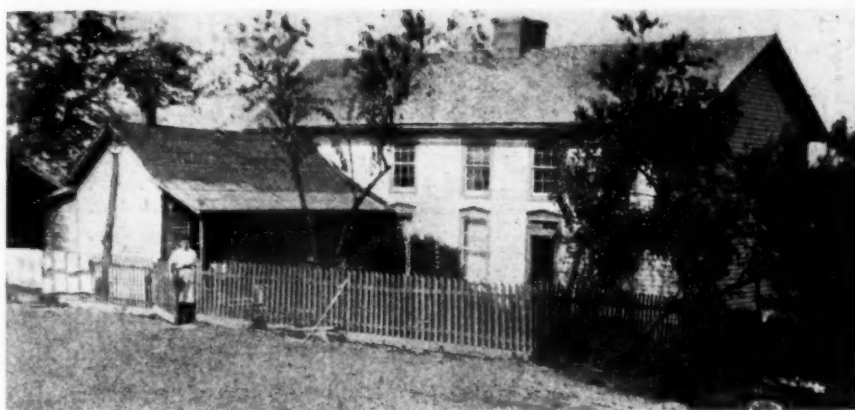
Old Mountain Road—A Crooked Narrow Trail

habitants as a class do not hold their former attitude toward the law and courts of law. Those of the younger generation are not nearly so individualistic or such staunch defenders of personal "rights" as those of the old generation.

Many believe the Mid-Appalachians are still the habitat of the old type moonshiners and feudists. However, if these things are sought they cannot be found: there are stew-pan moonshiners, many of them, but the real old type "corn" moonshiner of the mountains is extinct. Stills that are taken today are not the blackened copper stills of ripe age and



Typical Mountain Cabin



A Type of the Better Farm Homes in the Mountains Today

of goodly capacity but the type of makeshift contraptions that are picked up daily all over the country by prohibition enforcement officers. In the stills of the old days pure liquor could be made; most of them had drifted from the hands of licensed distillers into the mountains and into contraband use. Not so today.

The mountain family and community feuds are a thing of the past. One reads now and then of a "revival" of a certain feud, but those acquainted with the mountains read these reports with a smile. These feuds were all that they have been reported and in some cases more; however, they are at present nothing more than legends in the making, legends perhaps to be made use of by some Walter Scott who may be born into our race at some future time.

The dwellers of the Mid-Appalachians no longer use the language that is put

into the mouths of the characters in the stories of Elliott Robinson and Charles Neville Buck. The tongue of the moun-

tain land has changed. The difference between the spoken language of the old timers and that of their younger descendants is strikingly noticeable. The queer idioms, solecisms and pleonasms, and with them the odd pronunciation and drawling accents and inflections of voice which once made the speech so different, have gradually changed into a tongue almost uniform with that of the surrounding land. In the southern portion of the Mid-Appalachians there is a strong brogue, but it is the regular Southern brogue; it is no longer the old mountain dialect.

It would be possible to emphasize other differences in manners and customs of the Mid-Appalachians but the points touched upon should be sufficient indication of the great change which time has brought about in these mountain people.



New and Old Are Everywhere in Contrast in the Mid-Appalachian Mountains

\$6,000,000 POWER PLANT PROJECTED

Will Supply Standard Oil Refinery in Baton Rouge

Baton Rouge, La.—The Louisiana Steam Products, Inc., this city, a subsidiary of the Engineers Public Service Co., Inc., New York, will start immediately the construction of a \$6,000,000 steam and electric generating plant here to supply substantially the entire steam and electric requirements of the Standard Oil Company's Baton Rouge refinery. Construction is being handled by the Stone & Webster Engineering Corporation, Boston.

The new plant is designed to generate steam at a pressure of 650 pounds per square inch and furnish it at a turbine exhaust pressure of 135 pounds. The boiler plant will burn as fuel natural gas and sludges and waste fuel from the refinery. By-product electricity will be generated to a capacity of approximately 260,000,000 kilowatt-hours each year,

about half of this amount to be sold to the refining plant for power purposes, and the other half to subsidiaries of the Engineers Public Service Company, which furnish electric service in this territory, including the Baton Rouge Electric Co. and the Gulf State Utilities Co.

\$1,000,000 Oil Plant Site

Savannah, Ga.—The Mexican Petroleum Corporation of Georgia, a subsidiary of the Pan-American Petroleum & Transport Co., New York, has awarded contract to J. A. Tison & Sons, Savannah, to clear a 50-acre site here for the establishment of \$1,000,000 plant. Buildings will be of reinforced concrete, brick and steel, with composition roofing and steel sash and trim. Plans are being prepared by the Engineering Department of the company. A. M. McKean, chief engineer, and construction will be in charge of S. N. Shapiro, also of the company.

Church Continues Building Program

Continuing its building program inaugurated about four years ago St. Mark's Methodist Episcopal Church, Dr. Joseph Templeton Herson, pastor, Garrison boulevard and Liberty Heights avenue, Baltimore, plans soon to begin the construction of a new \$200,000 auditorium to seat approximately 750. The new structure will be of Gothic architecture, in keeping with a new \$250,000 Sunday school building recently completed. It will be 2 stories, about 52 by 260 feet, of gray stone construction, with slate roof. While an architect has not been definitely selected, it is understood that sketches prepared by Clyde N. and Nelson Friz, Baltimore, at the time plans were drawn for the Sunday school building, for which they were architects, will be considered. George C. Saunders is chairman of the building committee.

Offers Working Formula for Independent Wholesaler and Retailer to Meet Chain Competition

The following communication was sent by R. S. Ellis, president of the Hessig-Ellis Drug Company, wholesale druggists, importers and manufacturing chemists, Memphis, Tenn., to a selected group in the independent drug business, and to others who are concerned in the future progress and stability of the drug business in America. It emphasizes methods applicable to independent merchants in other lines who are endeavoring to find a sane solution to permit a continued profitable existence.

"Surely a revolution is going on today in every direction of commerce and industry that is as definite and distinct as was the revolution in France when Napoleon threw a barricade across a street in Paris and fired into a disorganized, destructive mob, out of which he brought order.

"Out of present conditions there will come order. A righting, a development of modes of conduct, more effective operation, more businesslike, where waste and lost motion and carelessness and inefficiency are reduced to a minimum. Things will be more sound and more definite. There will be even more confidence, the public will reap the benefits. American business will be more fairly compensated because of a job well done. The delight of doing things will be keener. Competition would prove that it can be keen and at one and the same time clean. But, in the meantime, many changes would have to be undergone, and therefore only the surefooted would carry on.

"Up until now chain stores have thrived and almost entirely confined themselves to the large communities. The next move you see will be chain stores of every type and kind in the small towns. They will either buy or put out of business customers of the wholesalers unless we change and move to prevent it, and we can only do that by knowing the facts, the full facts and all the facts that touch upon every single phase directly or indirectly of our business and that of our retail outlets, and have and put into operation some plan that will get the fullest benefit, the most intelligent results from the application of these facts. But that all of this is possible I am absolutely confident.

"Here is an interesting illustration of just one thing: A merchandise unit cost one dollar. Marked to sell at \$2. Remained as shelf stock for 12 months. Sold. Item again on want list erroneously as a profit item. If unit marked to sell at \$1.10, purchased on quick sale. Reinvested dollar and put aside 10 cents a sale a week for 52 weeks or 12 months. This picture. Instead of 100 per cent

gross margin, 520 per cent. Instead of \$1 margin money \$5.20, and the public saved \$46.80.

"When I worked out and presented this illustration before the directors of the Chamber of Commerce at a meeting held in Kansas City some while back, Thomas Wilson, president of the Wilson Packing Company, then a director of the National Chamber exclaimed—"There is a way out, isn't there, and in line with Mr. Ellis' suggestion I move that we call a conference on distribution, and the first national conference on distribution ever held in America." With this background as an inspiration meeting in January, 1925, six committees were formed out of the conference, Owen D. Young headed No. 1 on Vital Statistics and as the final result a bill is in Congress carrying the approval of President Hoover for a national distribution census and no doubt will come along with the population census in December.

"A permanent trade relationship committee resulted, and committee No. 3 headed by Lincoln Filene has done wonderful work in co-operation with the Federal Trade Commission.

"I was chairman of committee No. 4 on expense of doing business. We held seven meetings in New York during the interval of these two conferences—11 months—25 members, not a man absent from any meeting except in the case of James W. Morrison who part of the time was in Europe.

"These reports and the resolutions satisfied the public that there was no profiteering to speak of along the channels of American business, and business was directed to facts that made them start to digging in to get the answer as to what lessened profits. Corrections are being made.

"In April, 1929, the second conference on Wholesale Distribution was held. The result of the two wholesale conferences are in your hands in the form of the four reports. After a conference with George Everett, President, Montgomery-Ward in his office in Chicago, not long ago he told me that they now had three types of organizations, their big mail

order houses, the new department store organization, opening up plants all over the United States, and the third what is called retail stores in small towns; they are putting in one at Jackson, Miss., now a town of 30,000, Helena, Ark., 10,000; no doubt the same thing is being done over your field. They will go into towns much smaller and they propose to have them studded all over the United States.

"What's all of this about? It is to emphasize these facts, and there are many more, more alarming, and there must be found a sane solution to permit the continued profitable existence of the independent wholesaler and independent retailer. I know a proper working formula has been found and the supreme thing is to obtain it in full, put it to work. I propose to do that and offer it to you.

"My whole life has been devoted to the study of merchandising the distribution of commodities in an attempt to keep abreast or ahead of the time. My experience and opportunities in the past have been most unusual, and I have been brought in intimate ways with the inner workings of other lines of business than the drug business. I was chairman of a committee of three that consolidated five of our banks, out of which came the First National Bank of Memphis, now the leading institution here, where I am an active director.

"I have had an unusual opportunity to study the inside operations of large grocery store chain business. I was chairman of a committee of three that handled all of the millions of the Memphis pool in the great Piggly-Wiggly grocery stores fight and was in on the reorganization of that chain along its present successful lines.

"I have been directing operations of two chains of seven and six, respectively, retail drug stores for the past several years in order to gain more intimate first hand knowledge and try out certain experiments.

"I have had just as unusual opportunities in the hardware business and all the time, studying, studying, studying. "I was half owner and partner in a

saw mill operation cutting 45,000 feet of lumber a day. I simply wanted to give you a bird's eye view of some of the divergent channels with which I have been intimate and have had opportunity to study the operations from an inside viewpoint.

"Some of the divisions of industry have already passed through that part of the revolution or evolution in which the drug industry is now in the midst. I tell you that we must use a concrete road upon which we can travel with increased profit, assurance and satisfaction for permanent good business. We must put into work the recipe and keep it working, that will actually make each of us able to combat any and every phase of competition, be it mail order house, chain store (retail or wholesale), house to house distribution, department store, grocery store, or what not, and with all of the force at my command I say there is a way out, and that it can be done."

\$1,265,000 WATER CONTROL BONDS

Conservancy District Plans to Reclaim 10,000 Acres This Year

West Palm Beach, Fla.—The Circuit Court here has validated a bond issue of \$1,265,000 of the South Florida Conservancy District, a water control project involving parts of Palm Beach and Hendry counties. Territory from Bare Beach to a point north of Belle Glade is being reclaimed for sugar cane planting, it is said, and pumping activities are expected to put 10,000 acres under cultivation this year and 20,000 acres next year, as a result of the validation of the bonds, according to Jules M. Burguières, a member of the conservancy board. The South Florida Conservancy District succeeded the Palm Beach Drainage and Highway District, the name being changed by the Legislature. J. B. Jefferies is president, and J. F. Scullen is the third member.

May Develop 13 Miles Waterfront

Alfred I. du Pont, Jacksonville, Fla., advises that his office, with several others, has formed a local company and has taken over 13 miles of waterfront property immediately west of Apalachicola, Fla., but that no plans have been made for the immediate development of the tract. Because of its advantageous location, however, binding on the Gulf Coast Highway which was recently completed through that section, as well as fronting on the water, interests acquiring the property feel that it will soon be ripe for development.

Modern Store Building for Tulsa, Oklahoma

Modern in design and construction, the 12-story and basement furniture store building being erected in Tulsa, Okla., for Genet's, at a cost considerably in excess of \$500,000, is expected to be ready for opening about January 1. The entrance foyer will be flanked by windows to provide space for 6 room-sized settings, while a glassed front will give a view of the interior at night. A system of flood lights will be used on the front and special attention has been given to interior lighting, a board on the first floor controlling all lights in the building and a signal system of tiny red lights showing where lights are burning.

At the rear of the first floor a wall of mirrors gives the impression of great depth and a light well extends from the basement to the fourth floor. The interior of the building is of Gothic architecture, the walls being finished to imitate travertine. A laundry will be installed in the basement, also a kitchen, stage for lectures and demonstrations, and other facilities. This will be known as the Good Housekeeping Shop, where household appliances will be featured and a teacher employed for home economics. The twelfth floor will be divided into a series of model rooms, one group in French Provincial, one in Early American, one in Eighteenth Century English,

etc. A long corridor will be provided for hanging valuable paintings and displaying statuary.

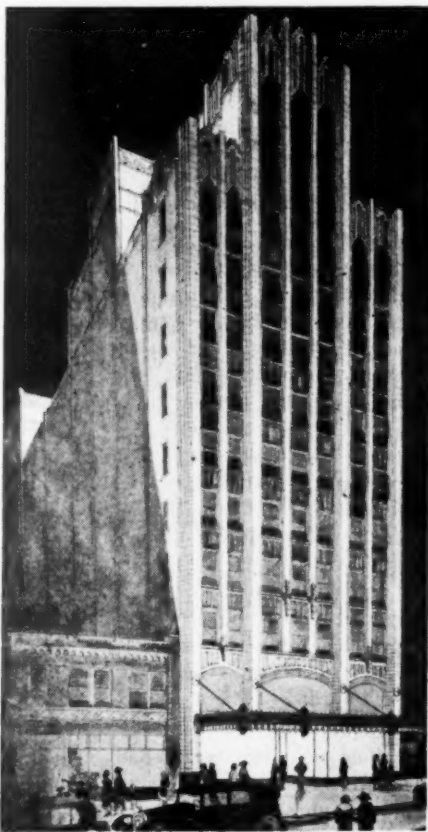
The eleventh floor, planned with their co-operation, will be dedicated to the Club Women of Tulsa, who will meet there. An auditorium will be provided, with stage, foot lights and dressing rooms, and a roof garden to permit a clear view of the city. The store will use the auditorium for its school of decorating and for presenting speakers on home furnishing subjects. On typical sales floors there will be two real houses—one of the budget bungalow type and the other of the Thrift bungalow type—and in a corner of one of these floors will be the store library, with publications on decorating, home furnishing and house planning.

Two floors will be devoted to warehouses, work rooms, shops and other facilities and on one there will be an incinerator for burning waste crating. A freight elevator will open directly into a finishing room, which, in turn, will open on an enclosed loading dock. Noble B. Fleming is the architect and the W. R. Grimshaw Co., general contractor, both of Tulsa.

\$1,620,000 BONDS FOR SEWERS

Two Projects Approved by St. Louis Supervisory Committee

St. Louis, Mo.—The Citizens' Bond Issue Supervisory Committee has approved two sewer projects to cost approximately \$1,620,000 in the aggregate and to be paid for from bond issue funds. One project embraces section F, of the \$13,000,000 River Des Peres drainage system, this section to extend from Forest Park near Lindell and Skinker boulevards in a northwesterly direction to the city limits, and to cost about \$1,200,000. The other covers the construction of the proposed O'Fallon street sewer, to extend from High street to the river. Work on the former is expected to begin in January and require 18 months to complete, the sewer tube to be of concrete and laid in the bed of the present channel of the river, partly in rock. The O'Fallon street sewer will be laid to such depth as to pass below the proposed subway of the Illinois Terminal system. It is explained by W. W. Horner, chief engineer of streets and sewers, that this sewer, the most important of 25 sewer relief projects, will drain territory now handled by the Biddle street sewer with only half the necessary capacity, and that it will also drain the Plaza district and an industrial section expected to be developed in the vicinity of the Illinois terminals.



Genet Store Being Erected in Tulsa

Concentration of Low Grade Alabama Iron Ores

By COURTENAY DE KALB.

ALABAMA has presented one of the most difficult problems in concentration ever attempted by the practical operator, in the beneficiation of its low grade siliceous iron ores. Recently a new effort to solve this interesting question has been made by the Bureau of Mines through the work of F. D. DeVaney, B. W. Gandrud, and W. H. Coghill, with results that pique curiosity, and which undoubtedly will be energetically followed by the great corporations engaged in the iron and steel industry at Birmingham. The net result so far has been to yield a combined concentrate that assays 47.6 per cent of iron, 5.5 per cent of lime (CaO), and 14.2 per cent of insoluble, being largely silica. No equally promising result has previously been secured in the preparation of the low-grade iron ores of Alabama.

Mr. Coghill had experimented with these ores, making an elaborate analysis by means of separation by a series of graded heavy solutions. He employed for this purpose acetylene tetrabromide having a density of 2.95, and, by admixture of this in varying proportions with stannic bromide, a series of solutions up to the specific gravity of the latter chemical, viz., 3.34, was obtained. Higher densities were secured by the use of antimony tribromide, and finally a density of 4.2 was reached with thallium malonate-formate (*vide* Transactions Amer. Inst. Min. & Met. Engrs., Vol. LXXV, 1927, p. 153).

His tests had shown in all cases that there was a steady progression, in each of the samples treated, in their iron content with the fineness of grinding, except in the case of the grade of highest density. It revealed the necessity for grinding to a degree comparable with that for ores intended for treatment by the cyanide process, which is as close an approximation to slining as can economically be obtained in practical work. That, of course, is fatal to the application of any separation by concentration. Therefore, Mr. Coghill advised the application of roasting to convert the iron into magnetic form, followed by the magnetic log-washer. This was tried at the University of Alabama with encouraging results, but a plant for testing the process on a large scale, in order to develop its economical possibilities, was

not forthcoming. It did reveal some important facts regarding the ores, which has been of great service in the work recently carried out.

The "hard" ores of the Birmingham district are essentially oölitic, consisting of concretions of varying size, made up of a series of concentric shells of hematite, interspersed with thin films of argillaceous material, these shells enclosing grains or nuclei of silica. The nuclei with their hematitic shells are very small, and closely resemble fish roe, whence the name oölitic. They have then been cemented together by lime. It occurred to the authors of the paper just sent out by the Bureau of Mines ("Gravity Concentration of Alabama Oölitic Iron Ores," Serial 2937, 1929) that if some type of de-shelling operation could be applied it might prove feasible to remove the outer envelope of hematite with its films of argillaceous substance, and leave the nucleus of silica virtually intact. It was clear that if such a thing could be accomplished the resultant product would be amenable to ordinary gravity concentration methods. They have succeeded so well that, starting with an ore assaying 39.6 per cent metallic iron, 8.5 per cent lime (CaO), and 20.85 per cent siliceous matter, they have obtained concentrates yielding 47.6 per cent Fe, 5.5 per cent CaO, and 14.2 per cent insoluble, against tailings that carry 17.9 per cent Fe, 16.9 per cent CaO, and 38.7 per cent insoluble. The possibilities of the method are shown by the fact that the concentrates represent 73 per cent of the total product.

This may be characterized as an exceedingly brilliant result, and it demonstrates that the authors of this paper really had an inspiration when they conceived the idea of de-shelling the hematite envelope from the enclosed granules of silica. They state that they attacked the problem with the "physical properties of the ores" held in view. Furthermore, that "the removable siliceous gangue is in the form of oölitic grains which 'shell' out like corn, leaving the hematite as rich high-grade 'slime' and as clean granular grains. The slime concentrate may be recovered by well-known desliming processes. The oölitic grains and granular hematite are separated on tables."

The peculiarly clever idea lay in the adoption of a highly resilient crushing medium. The point necessary to hold in mind in appraising the merit of the conception is simply that of the resiliency of the medium, irrespective of any par-

ticular type of crusher employed. They actually used rubber-covered rods in an ordinary rod-mill. For this purpose common garden hose was drawn over one-inch steel rods. Whether rods patterned after that model may prove to be the best thing to do the work or not, the fact stands that by this method they succeeded in solving a previously insoluble problem. They have blazed a new trail, demonstrating the correctness of their general plan. Having proved the idea sound it remains merely to perfect the method.

It is by no means the first time that rubber has been employed in a crushing device. It has been introduced as a lining in a ball-mill to prevent the slippage of the balls, and has met with some favor. (See article on "Rubber Lining for Tube and Ball Mills," by Arthur Parsons, in the Engineering and Mining Journal for September 22, 1923, p. 489.) Rubber-covered rods may or may not in the end prove best adapted for the purpose, but there are materials that are possessed of a certain amount of resiliency aside from rubber that might serve in place of the steel rods or balls such as are commonly used for this purpose in grinding ores. As a single possibility, it will be noted there was a reduction in the lime content from an original 8.5 per cent in the heads to 5.5 per cent in the concentrate. That is insufficient for furnace operation, and it might be that sized crushed pure limestone, properly proportioned as to the size of the chunks so as not to strike too hard a blow, would offer possibilities in preparing these ores in a ball-mill. Such balls might be used in conjunction with a rubber lining. A point of great interest is that a low grade reject of material unprofitable for further treatment was obtained from ore sized to as coarse a grade as 8-mesh.

As said before, the idea of de-shelling the hematite covering from the siliceous nuclei was the great thing. The rest is mere detail, which will be worked out as the process becomes further developed. There remain many opportunities for improvement of the method, as shown by the fact that the tailing still contains 17.9 per cent metallic iron. It should be easy to induce capital to provide the funds for further investigation of a process possessing so great a likelihood of becoming an economic success, and thereby releasing to industry almost countless millions of tons of ore. Such an opportunity certainly will not be overlooked by the progressive iron makers of Birmingham.

Cotton Seed Has Become One of the Great Agricultural Products of the Country

DR. LEHMAN JOHNSON, consulting cotton seed specialist of Memphis, Tenn., in a letter to the MANUFACTURERS RECORD, writes:

"We are told that before long *all* the short lint on the cotton seed, even the shortest, is going to be needed for rayon and other cellulose products. What are we going then to do with the black hulls, some 500 to 600 pounds to the ton of seed?

"They are not suitable for feed in that shape. I see no use for them unless finely ground and their much needed carbohydrates returned to the too rich protein cake or meal. The Department of Agriculture has from the first opposed this course and practically compelled the manufacture of a vegetable cheese for feed or a high ammoniate for fertilizer. All the British oil mills keep the hulls with the meal and get just about as much for it as we do for the kernel meal. Linseed meal contains all the hulls of the flax seed. There should be a standardized and officially approved synthetic cotton seed meal containing kernel and hull in natural proportion of the seed, with, of course, the excess of oil removed. There should be standardization and official approval of this synthetic product combined with ground whole ears of corn to reduce further the still-too-high-protein content of the meal for safe feeding by the average ignorant feeder."

In the course of an address delivered some time ago at the annual convention of the Interstate Oil Mill Superintendents Association, Atlanta, Dr. Johnson discussed the future of the cotton seed. "The cotton seed has a past," he said. "It has a present of which we are not very proud, or we would not just now be engaged in reorganizing the whole industry and trying to carry out and finally to adopt a much needed 'Code of Ethics.'"

But it was in the future of the seed that Dr. Johnson was particularly interested. Said he:

"The future of the cotton seed demands that we no longer regard it as a by-product, that farmers themselves must respect it as one of the great agricultural crops of our country independent of the fiber, care for it, treat it as such, and follow it to the ultimate consumer, cheerfully bearing their fair share of the expense of placing it in the consumers' hands."

He then listed a few facts about the seed, as follows:

"1st. We devote the eminently respectable quantity of 40,000,000 acres of our farm lands to the raising of cotton seed.

"2nd. We average 13 to 14 bushels of cotton seed per acre on these 40,000,000 acres, almost the identical average of wheat production per acre in the United States, and on our very best and most highly cultivated bottom lands we can

raise sixty-six and two-thirds bushels per acre.

"3rd. Compared with that agricultural aristocrat, wheat, which has been absorbing so much attention of Congress, while cotton seed is being wholly ignored, our cotton seed contains 20 per cent of fat or oil against wheat's two and two-tenths per cent; 20 per cent of protein against wheat's twelve and four-tenths, and only in the commonest and cheapest of the three necessary ingredients of food and feed, the carbohydrates, does wheat excel the cotton seed.

"4th. If profitable agriculture lies, not in artificial boosting by government, but in growing upon one and the same body of land both plants and animals, and keeping up the soil with animal excrement from the feed, instead of artificial fertilizers, then the cotton seed is the very life blood of Southern agriculture. If that blood stops coursing, if that heart stops beating, the American people could not be properly clothed or fed; the cost of living to every one of our 115,000,000 population would be enormously increased, and the daily life and economic balance of the entire civilized world would be seriously disturbed."

From these facts the speaker drew certain conclusions. The first was:

"If one-half the respect and painstaking care given to wheat by the farmer and the flour mills were given to cotton seed by farmer and oil miller, the total profit, from a single crop of seed, which could and should be equitably divided between the four necessary elements in the conduct of the industry, farmers, ginners, mills and refiners, could be doubled, right off the reel."

The second is a logical step from the first, and is as follows:

"If we want, as a future for the cotton seed, the maximum profit obtainable all around we must make it worth while to the grower to take care of the seed, make it worth while to the miller to mill it better and adjust our trading rules accordingly."

As an inducement to all parties concerned to take better care of the seed and the milling thereof, Dr. Johnson proposed a system for an equitable division of profits, giving the farmer part payment for his seed in cash and "a ticket giving him an equity in the seed to be adjusted later according to its real value in proportion to the amount and quality of products those seed would make, a portion of the value being reserved for promotion and marketing," while at the same time giving the miller something more than the present customary "spread." "The old-time 'honest miller' got a percentage of the product he milled for his toll and necessarily made more profit when there was good

demand and good price for the milled products."

The third conclusion is that:

"The future of the cotton seed demands that the value of the products of a ton of cotton seed should be divided into equitable proportion between grower and miller and the miller's profits should rise in like proportion to those of the grower from increased demand, better publicity, better manufacture, and better marketing.

"These three conclusions alone, accepted and carried out with the approval of Federal Trade Commission and U. S. Department of Agriculture, would create a profitable economic revolution in the industry."

The speaker then took up the four chief products of cotton seed and discussed possible ways for improving their manufacture and marketing.

\$2000 AWARD FOR BEST INDUSTRIAL ADVERTISING

Attention Industrial Advertisers—Go After This \$2000 Prize

The Harvard Advertising Awards Committee of the National Industrial Advertisers Association announces the annual Bok Award of \$2000 for the best industrial advertising campaign for 1929 appearing in newspapers and periodicals. Closing date of the competition is December 31, 1929. It is suggested that every industrial advertiser should enter the competition and that a consideration of the requirements alone will tend to inspire higher standards in industrial advertising.

Manuscript and ads must be submitted in certain prescribed form, details of which can be secured from the Harvard Graduate School of Business Administration (Harvard Advertising Awards), Soldiers' Field Station, Boston, Mass., or from A. H. Oberndorfer, Chairman N. I. A. Awards Committee, c/o Sivy Steel Casting Company, Milwaukee, Wis.

\$500,000 Bonds to Begin \$7,000,000 Station Project

Houston, Tex.—City council has passed an ordinance authorizing the city comptroller to issue \$500,000 special improvement bonds needed for beginning construction of the proposed \$7,000,000 passenger station here for the Southern Pacific System. The bonds will bear an interest rate of 4½ per cent and will be retired within 15 years. It is understood they will be placed with local bankers.

The New Tariff vs. Unemployment

Idleness Permanent in Great Britain and Temporary Here; American Branded Goods Made Abroad; Customs Tariff Machine Should Be Reconditioned; Higher Prices Not Traceable to the Tariff

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

Number 32.

IDLENESS through unemployment either at home or abroad is always a serious situation to contemplate. We have many, too many, jobless people in this country at present, and the number will increase unless Congress includes the great raw materials and semi-finished materials in the pending tariff bill. Possibly we will continue under the existing tariff law, with its many free trade spots, or possibly we will have something worse, by an act emasculated through exceptions, but we should have neither of these, rather a well balanced protective tariff, if the declared views of the leading parties last November are to be taken seriously.

The dole, so well illustrated in the English dole system, should have no place in this country, the land of greatest opportunity for earning a livelihood. The dole is the result of deceased industry and is its funeral dirge. That Great Britain has 1,200,000 people out of work, as a permanent condition of unemployment, must mean that there is something wrong with her fiscal policy. We protectionists believe that this is the result of her abolishment of a protective tariff in 1845. However, it is unemployment in the United States that appeals to the sympathy of all thinking Americans, and they should read the following statement of J. H. Thomas, Lord of the Privy Seal, at the labor party conference in London on October first, as illustrative of the seriousness of permanent unemployment as compared with our temporary employment:

"The enormous sum of \$4,859,000,000 has been spent by Great Britain on account of unemployment since the war. * * * Britain has to-day 1,200,000 out of work * * * indicating the tremendous task with which the Labor Government is faced."

The doors of the offices and the desks of every member of Congress should be placarded with the words of Mr. Thomas, lest they forget every little and big industry, the product of which will give increased employment, larger payrolls and increased purchasing power to our people.

American Branded Goods Made Abroad

"Not a single voice was raised in defense of the section," under 526 of the Hawley-Smoot tariff bill, at a recent meeting of the Merchants Association of

New York, according to the daily press reports. Of course not. This meeting was held at the call of the Merchants Association, to "protest against the adoption by the Senate of an amendment to Section 526 of the Tariff Act, whereby imports of American products manufactured abroad bearing an American trademark would be prohibited."

A quite general practice has grown up of American owners of trade marks and patents manufacturing articles abroad, and exporting the same to this country, bearing the American trade mark. That is, enjoying all the benefits and protection of this market, they sneak away into low production-cost countries, manufacture the goods under American patents, and bring the goods into this country to take the place of American production. Matthew Woll of the American Federation of Labor defined or explained the subject before the Senate Finance Committee as follows:

"If we recognize the right of a monopoly through the trade-mark registration, we feel that the American wage-earner should be protected in that exclusive or monopolistic right, and that it should not be given to the possessor of that trade-mark, or monopoly right, to consent to have these goods manufactured abroad and imported, and thus the American market be deprived of every advantage intended by that exclusive or monopolistic right."

Very wisely, the Hawley-Smoot bill makes it unlawful to import goods or articles manufactured abroad bearing American trade mark or notice of patent.

This un-American practice of making American patented articles abroad for the American market is another angle of internationalism which, fully developed, would lead to the overthrow of the national policy of protection. Efforts of the New York Merchants Association generally lean to the importer and foreign interests. At the meeting referred to, an official of a large chemical concern said that the concern manufactured some of its products in the United States and some in Canada, and that the value of the trade-mark used on the Canadian goods was worth at least \$1,000,000.

An official of a large food importing concern said that his company and numerous others were bringing in imported foodstuffs labeled abroad, and that if the law were passed in its present

form the effect would be to restrict business. Yes, it would restrict illegitimate and unfair importations, and it is the duty of Congress to correct just such things. Let us apply the same practice abroad. Who ever heard of an Englishman manufacturing an article under an English patent in the United States for export to Great Britain? The query applies to all countries within the international union on patents. The simple fact is that many American manufacturers took advantage of a weak spot in our tariff law to utilize cheap foreign labor in the production of trade-marked or patented articles for consumption in this country. It will be stopped.

Recondition the Customs Tariff Machine

The subject of "party in interest" to customs procedure, which has aroused great discussion in the Senate and in the press, developed through a finance committee amendment as follows:

"Any authorized representative of an American labor organization or labor association shall, in respect of merchandise in the manufacture or production of which members of such organization or association take part, have the same right to complain, appeal, or protest, as is by this section accorded to an American manufacturer, producer or wholesaler."

It is fortunate that the subject is before Congress. Stripped of legal phraseology and technique, the subject is: Shall complete evidence (all sides) be placed before customs tribunals; and the objective is: Shall a correct ruling on every point in the tariff laws be made? The question will not be settled until the Hawley-Smoot bill is through the conference committee and ready for the President to sign.

There really is no necessity for this legislation except for the rules and regulations of the U. S. Customs Court, the Secretary of the Treasury and the Department of Justice, which operate very often to defeat the intent and purposes of the law. Rules and regulations are law if authorized. These bodies in their procedure should not be confused with the U. S. Tariff Commission, another entirely different body; this was done by the members of the Senate in their discussion of this subject.

Here is customs procedure:

First. On value, the importer or gov-

ernment may appeal to the U. S. Customs Court as to the assessed value of an imported article by the collector of customs; one general appraiser or customs judge receives the testimony and renders decision; and, upon application of either party, appeal may be taken to the full court, consisting for legal purposes of three members, whose decision is final. As a rule, the full court takes no evidence but reviews the testimony taken by one general appraiser. As foreign values change rapidly, especially in the mind of the foreign exporter, new cases are continually made on similar articles.

Second. On classification of the rate of duty, the importer or the government may protest the rate of duty of an imported article named by the collector of customs, and the same procedure as with "value" follows, except that an appeal may be taken to the U. S. Customs Court of Appeals, for review (no testimony taken) and on certain conditions may reach the U. S. Supreme Court. A change in classification amounts to re-writing of the law, hence requires the approval of the highest court, if customs decisions are contested.

It will be seen that all customs cases or disputes rest upon the testimony taken by one general appraiser or judge of the customs court, who becomes practically the czar of customs tariff administration, with an occasional reversal in some case of paramount importance.

The Board of U. S. General Appraisers (now U. S. Customs Court) was organized under the act of June 10, 1890, which, in part, read:

"To exercise, under the general direction of the Secretary of the Treasury, such other supervision over appraisements and classifications, for duty, of imported merchandise as may be needful to secure lawful and uniform appraisements and classifications at the several ports."

There is nothing in the organic law or as amended, excepting as authority is given to make regulations, methods of procedure and rules of evidence, to prevent any American citizen or the representative of any industry from presenting evidence on any side of any customs case. However, the rules and regulations stop the American citizen or the representative of American industry at the door of one general appraiser, who renders his decision on testimony built up by the importer and "customs practitioner," who have full access and almost exclusive preference. Right here is the foundation of the customs machine which controls all readjustments. The decision of the general appraisers (U. S. Customs Court) must be followed by collectors and local appraisers of customs. Action by the Secretary of the Treasury, whose authority has been limited by law, and cooperation of the Department of Justice render correction of the present deplorable conditions of customs administration very difficult, if

not impossible. The organic law would accomplish better results than the existing or proposed law in giving every interest a hearing on the value and classification of imported merchandise. Complete presentation of facts on all sides of customs cases and complete publicity would go far to satisfy domestic interests and to improve administration of the law.

Higher Prices Not Traceable to the Tariff

Threadbare are the attacks on protection of higher prices to the consumer through the Hawley-Smoot bill. Seemingly, from free trade Senators down to Will Rogers, every one has been quoted in the press in every state, telling of increased prices through a tariff not yet passed by the Congress. A splendid editorial rejoinder comes from the nationally circulated Farm Journal of Philadelphia, which, in part, reads:

"In commodities where there is unlimited competition, as in most lines of farm production, the price is fixed solely by our old friend, the law of supply and demand. Tariff duties have nothing to do with it, except when, by shutting out some of our imports, they cause reduction in the supply. * * * But the cleverness of the cleverest intellect will not be able to trace any exact relation between the increase in duty on a given product and the course of the market price of that product."

SANTA FE SYSTEM WOULD BUILD 380 MILES

Subsidiaries Apply for Authority to Construct Rail Extension

Amarillo, Tex.—Application has been filed with the Interstate Commerce Commission by the Panhandle & Santa Fe, Elkhart & Santa Fe and the Dodge City & Cimarron Valley railroads, subsidiaries of the Atchison, Topeka & Santa Fe Railroad, for authority to build a total of 380 miles of rail line extensions, designed to provide a shorter route over the Santa Fe main line from Chicago to Los Angeles and a shorter line to connect Colorado points with Gulf ports. The Panhandle & Santa Fe would build a 96-mile line from Amarillo to a point in the northern part of Dallam County, Texas, connecting with the North Texas & Santa Fe, and a 50-mile line from Dumas, Texas, northeast to Spearman, Tex. Plans of the Elkhart & Santa Fe contemplate a 39-mile line from the southern part of Cimarron County, Oklahoma, to the northwest corner of the same county, and a 110-mile line from Felt, in Cimarron County, to Colmar, N. M., connecting there with the Santa Fe. The Dodge City & Cimarron Valley Railroad would build a 33-mile line from the southern line of Baca County, Colorado, to Las Animas, Col., on the Santa Fe.

WEEKLY BUSINESS INDICATORS

Compiled by United States Department of Commerce.

[Weekly average, 1923 to 1925=100]

ITEM	Oct. 5	1929 Sept. 28	Sept. 21	Oct. 6	1928 Sept. 29	Sept. 22
Production:						
Steel operations.....	111.8	107.9	111.8	113.2	112.0	105.0
Bituminous .....	.....	117.5	111.5	113.3	113.4	102.8
Beehive coke.....	.....	48.6	50.2	33.5	32.7	31.0
Petroleum .....	.....	139.2	140.4	121.2	120.5	120.5
Building (new awards)...	.....	99.2	135.4	180.6	162.7	199.6
Trade and distribution:						
Check payments.....	166.4	147.8	155.3	150.3	126.2	142.8
Car loadings.....	.....	.....	121.6	123.8	124.8	119.2
Wholesale prices:						
Fisher's index (1926=100)	94.7	95.8	96.1	99.2	99.3	99.3
Cotton, middling.....	69.5	68.8	68.8	70.2	71.0	68.0
Iron and steel composite..	87.8	88.0	88.2	85.3	85.2	85.1
Copper, electrolytic.....	.....	129.0	129.0	108.7	108.7	108.0
Receipts:						
Wheat .....	.....	140.0	136.1	279.1	249.1	231.1
Cotton	308.8	239.6	200.4	303.8	256.5	202.7
Cattle .....	.....	121.5	109.8	121.8	121.8	140.5
Hogs .....	.....	77.8	66.4	56.1	72.3	61.3
Banking and finance:						
Loans and discounts.....	139.4	138.0	138.1	127.6	126.5	127.0
Federal reserve ratio.....	93.8	95.2	95.2	89.5	88.4	86.3
Interest rates, call.....	181.8	215.1	203.0	178.8	163.6	187.9
Interest rates, time.....	205.7	208.6	205.7	165.7	168.6	165.7
Stock prices.....	.....	304.9	312.5	209.4	210.4	211.1
Bond prices.....	102.8	102.9	103.1	107.8	107.9	107.9
Business failures (number)	97.3	105.2	88.5	105.4	98.3	107.4

IRON, STEEL AND METAL MARKET

Continued Decline in Production of Steel

Pittsburgh, October 21—[Special.]—Steel production has declined more in the last fortnight than formerly, the decreases from the peak rate of May having been very small indeed through September. Production of steel ingots is now at about 80 per cent of capacity, against over 99 per cent officially reported for May. While the rate is below that of a year ago, there was a particular bulge in production last October and by a long range comparison the present rate is really a high one.

More than half the decrease in steel production is due to the automobile industry, which earlier in the year was exceptionally active while now it is exceptionally dull. Another part is due to seasonal decrease in rail production and another part is due to lighter deliveries of steel to freight car shops. There has been some decrease in other steel consuming lines to account for the net showing, but specific details are not available.

Each of the three consuming lines mentioned as showing decreases will have some sort of recovery. The extent of the automobile recovery is altogether conjectural. There is much talk about new models, manufacturing schedules, etc., but in the last analysis it is going to be a matter of how many people buy automobiles and nobody can predict that. As to rails, the annual rail buying movement has been under way for several weeks and rolling is about to begin on some of the orders, promising at least a little increase in rail production. This is merely a seasonal and routine matter. The roads that bought the first 400,000 tons on this movement bought practically the same total tonnage one year ago and two years ago. The Pennsylvania and New York Central seem at this writing to be on the verge of buying, the first to take about the same tonnage as last year and the latter to take considerably more than a year ago.

As to freight cars, there was heavy buying early in the year and by May the car shops got up to a rate of building about 10,000 cars a month. Lately the orders have been nearing exhaustion, but there has been heavy buying in the last fortnight. The official report showed 31,671 cars on order September 1 by Class 1 roads, and unofficial reports indicated about 4500 cars ordered in September. Estimating September production at 10,000 cars, there would be only about 26,000 cars on order October 1, but orders reported since October 1 total 18,650 cars and there is much inquiry

still in the market. The car shops make close prices, as they want to hold their organizations together, and the steel mills no doubt help them as to steel prices. As for several years the railroads have retired more cars than they have installed, the purchases are financed by sinking funds.

From May, 1928, through August, 1928, fabricated structural steel made a remarkably good showing, bookings being far above any previous pace, and August bookings made a new all-time monthly record, at 365,750 tons. September then brought a decrease, according to the official report, while lettings reported in the trade in the last fortnight were only about half the previous average. The shops are left with a large order book, as they gained 300,000 tons, in bookings over shipments, from February 1 to September 1.

Steel prices are not giving a very good account of themselves. While mills in general have been making a determined stand to hold prices, as concessions made now would in all probability apply also to first quarter business, there have been various irregularities. Plates have been much shaded in the East, bars had a slight decline recently and sheets are easy. Nails have been steady since their recent decline, and pipe is firm in nearly all sections.

Pig iron remains decidedly dull, with prices fully maintained.

The Metals Are Easy, With Buying Light

New York, October 21—[Special.]—Weakness or easiness has characterized the metal markets over the past week, this condition having been the most widely prevalent in several months. The metal which the jokesters claim goes into the manufacture of a certain low-priced automobile has been the lowest in five years. In other words, spot Straits tin has sold at 41½¢ per pound, as against a low point in 1924 of 40¢ per pound. On the local metal exchange new low levels were established when standard tin futures sold at around 41¢.

Zinc prices at London dipped to the greatest valley point since 1920. Lead prices have been declining steadily at London and so have copper prices. Yet only in tin has a definite and clean-cut break in prices taken effect. Completing the picture is the weakness among the ferrous metals, with finished steel prices being inclined to sag.

Buying of the metals has been light,

except in the case of tin where drastic drops in price attracted consumers into the market, yet purchasing of that nature was not as brisk as usual for such sharp price declines, the majority of consumers being still rather distrustful of the tin market.

Freight car orders placed during October promise to be the largest for any month in five years and considerable non-ferrous metal will be used in bearings, etc. Specifications for raw materials on the part of the automobile makers are the lowest in a year and a half. The National Automobile Chamber of Commerce predicts that the production over the rest of the year will be 600,000 cars as against over 900,000 vehicles over the corresponding period of last year. Production for all of 1929 is estimated at 5,600,000 cars, or 1,000,000 cars greater than during 1928.

Declines in steel operations by 5 per cent in a week and a depressed stock market have also had their adverse influence on the metal markets. The steel industry feels the most keenly the slump in orders from its best customer, the automobile industry, though this is partially offset by brisk business from the railroads and the builders.

No important changes have taken place among the minor metals. Silver fluctuates between 49½¢ and 50¢ per ounce. Antimony is unchanged, but due to further revolutions in China, the chief producing country, better buying and possibly higher prices are expected. Quick-silver holds steady, with most sellers quoting \$125 per flask.

September statistics for copper showed a decline in surplus stocks of nearly 10,000 tons, bringing total stocks down to about 95,000 tons, the first decline since March. Shipments increased nearly 2000 tons and there were reductions in production of mine and refinery production, with blister copper production remaining about the same. World output has been virtually unchanged for four months, the September total having been 174,853 tons.

Some interpreted the figures unfavorably. They said that surplus stocks declined because of the strike at the refinery of the American Metal Co. Moreover, they were disappointed because shipments were no larger in view of the heavy sales early that month. However, it is probable that the bulk of those sales was for October shipment and will not be reflected until the October figures come out in another month. At any rate the statistics did not stimulate business, which has remained at a very low ebb,

export sales being not over 600 tons daily on an average. Domestic business has been correspondingly light.

Some observers of the copper situation have wondered of late whether the rich ore developments in Africa will not cause an overproduction of the red metal within the next few years and bring down prices. In answer to this contention the Engineering and Mining Journal points out that consumption has been gaining at the rate of 9 per cent per year. If this rate is continued over the next ten years the world consumption of the red metal in 1939 will be 5,000,000 tons compared with 2,000,000 tons last year. The principal African producer, the Katanga company, has not been following the American producers in cutting production, for each month's totals are larger than the ones before.

An illustration of the better consumption of copper in the electrical industry is the case of the General Electric Co., which in the third quarter of this year booked 29 per cent more orders than during the corresponding period of 1928.

Though the tin market has been much depressed, the latest statistics have been more favorable. Thus Straits tin shipments to the United States during the first half of October were slightly over 4000 tons, which is a more bullish showing than the predictions which mentioned an increase by 10,000 tons for the entire month. Tin prices have dropped so sharply because no steps have been taken to curtail production, and stocks of the metals are accumulating. Stocks in the British warehouses are the largest in several years. In 1924, the previous low water mark, after dipping to 40c per pound the price reached 59c before the end of that year.

Stocks of lead in the United States and Mexico fell 4000 tons during October. The market is stronger here than in Europe where the tendency is easy, with prices declining. Zinc producers hold doggedly to 6.80c in the face of dull demand.

Pig Iron Prices Remain Firm Under Steady Shipments

Birmingham, Ala., October 21—[Special.]—Steady shipment of pig iron from furnaces is noticeable, with home melters getting the average amount for this period of the year. One interest reports slackening of demand, though production has not been materially cut down. Many foundries and machine shops, including specialty shops, are melting iron but buying against needs of a short time ahead, small-lot purchasing apparently being satisfactory. Now and then a sale or two of more or less tonnage is reported for iron to be shipped out of the

territory. Quotations are firm at \$14.50 per ton, No. 2 foundry, in the home territory, and \$14 for outside shipment. Reports are heard of small concessions on the latter price, competition being met.

Production of pig iron for October will show increase as compared to the previous month. One furnace blown in during the month is showing splendid response in output; two others are in good shape and can be brought into commission on short notice.

Cast iron pressure pipe shops are producing fairly well but there has been recession in demand for the product and the usual lull at this time is setting in. No inquiries for pig iron are reported for first quarter of 1930 and the numerous sales, in small lots, are for delivery within 30 to 60 days at the most, the furnace interests urging sales for the last quarter of this year. Several smaller shops employing pig iron in daily operation are going steadily.

Steel mill operations are around 80 per cent capacity, with demand firm for bars and plate and improvement noted in sheet, structural and other shapes. Practically all open hearth furnaces in the district are making steel. The rail mill has responded well, labor starting to work almost at 100 per cent after the two months and longer shut down. Orders on hand and in sight will warrant an active season of operation. Steel fabricating shops report numbers of orders being received with several large specifications in sight.

The Tennessee Coal, Iron & Railroad Company has installed a special railroad car 65 feet long to handle extra long bars for reinforcing steel shapes, something novel for the district; heretofore two cars have been necessary to haul the steel to shops that fabricate reinforcing bars of length.

Scrap iron and steel continues slow, due to low prices obtaining for pig iron.

The coal mining industry reports a little improvement as domestic coal as well as steam fuel comes into better demand. Coke is steady, with a little tonnage of foundry moving from the district. Price base is \$5 for foundry.

Pig iron and iron and steel scrap quotations are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.00 to \$14.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$14.50 to \$15.00; iron of 2.75 to 3.25 per cent silicon, \$15.00 to \$15.50; iron of 3.25 to 3.75 per cent silicon, \$15.50 to \$16.00.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	17.00 to 18.00
Old steel rails	13.00 to 14.00
Heavy melting steel.....	10.50 to 13.50
No. 1 cast.....	13.00 to 14.00
Stove plate	12.50 to 13.00
No. 1 railroad wrought...	10.00 to 11.00
Old car wheels	11.00 to 12.00
Old tramcar wheels	12.00 to 13.00
Machine shop turnings....	7.00 to 8.00
Cast-iron borings	7.00 to 8.00
Cast-iron borings (chem.)..	13.00 to 13.50

Expanding Power Facilities to Keep Pace With Industrial Expansion in Southwest

San Antonio, Tex., October 19.—Due to the erection of large office buildings and general development work in the business area, electrical consumption in San Antonio has increased approximately 25 per cent in the last year. Industrial projects recently completed include the big Portland cement plant erected by the Republic Portland Cement Co. Important projects under way in the city and vicinity include the establishment of Randolph Air Field, also a commercial air school and airplane factory close to the city by the Alamo Aircraft Corp.

The communities of Prairie Lee, Fentress and Pandora have been connected to the high tension lines of the San



Comal Power Plant, Recently Enlarged

Antonio Public Service Co. in the expansion program taking place in Southwest Texas. This makes a group of 28 towns and rural communities now using power from the company's line, and it is said the steady growth of these towns is due in large measure to availability of dependable power in quantity. To meet this growth and also to supply power to the Central Power & Light Co. and to the Texas Power & Light Co., both serving a large and productive area in Southwest Texas, the expansion program of the San Antonio Public Service Co. has included installation of an additional 30,000-kilowatt steam turbine at its Comal plant near New Braunfels, costing approximately \$2,000,000. Plans are under way to increase the capacity of station B power plant in San Antonio. The underground network serving the business section has been remodeled and improved at a cost of \$400,000. The company's power lines have been extended to Randolph Field.

The commission council of Bogalusa, La., has sold a \$250,000 bond issue to three Bogalusa financial institutions.

HIGHWAYS AND MOTOR TRANSPORT

\$65,000,000 ROAD BOND ACT DECLARED VALID

South Carolina Supreme Court Upholds Constitutionality of Legislative Measure to Complete Highway System

Columbia, S. C.—The legislative act providing a bond issue of \$65,000,000 for building roads in South Carolina has been declared constitutional by the Supreme Court of the state and it is now believed that the way is clear for financing road construction from the proceeds of the bonds. All members of the Supreme Court, together with 14 judges of the Circuit Courts, passed on the measure, the prevailing opinion being written by Judge John G. Stabler, an associate justice of the Supreme Court. The opinion places in full force all provisions of the act, which was passed at the last session of the General Assembly, providing for the early completion of the entire state highway system. As a companion act to the bond measure, the Assembly passed a bill imposing a gasoline tax of 6 cents per gallon, of which 5 cents will be devoted to the payment of the principal and interest of the bonds. It is contemplated that the highway system will be completed within a period of four years, and of the \$65,000,000 of certificates to be issued, not more than \$20,000,000 may be put forth in any one year. Before the certificates are issued the act provides that the State Highway Commission shall transmit to the Governor a request for their issuance, specifying the amount of interest to be paid and the time of payment of interest and principal, with other details.

\$750,000 Road Bonds Voted.

Bolivar, Tenn.—According to a canvass of votes by the Board of Election Supervisors of Hardeman County on a bond issue of \$750,000 for the construction of roads in the county, the election carried by a vote of approximately 3 to 1. An issue of \$100,000 to erect additions to the high school buildings at Bolivar, Whiteville and Grand Junction, was defeated.

\$781,744 Low Figures on 10 Projects

Raleigh, N. C.—A tabulation of bids by the State Highway Commission for the construction of 10 road projects, indicates that the total cost will be \$781,744. No bids were received on two small projects in Pitt County, embracing

hard-surfacing approaches to the Tar River bridge at Greenville and a short section of paving near Farmville.

\$145,000,000 for Road Aid

Washington, D. C.—A bill will be introduced in Congress by Representative Dowell, chairman of the Roads Committee, to authorize an annual appropriation of \$145,000,000 to aid road construction, and \$10,000,000 for forest roads and trails. Present appropriations embrace \$75,000,000 for road aid and \$7,500,000 for forest roads and trails.

\$2,500,000 Road Bond Election

Corpus Christi, Tex.—By order of the Nueces County Commissioners Court, a county-wide election on a bond issue of \$2,500,000 for the construction of roads will be held on November 9. In the event of a favorable vote, state aid will be granted the county in the sum of \$713,000, according to Roy D. Clift, clerk of the court.

Asks Bids on 52 Miles Roads.

Frankfort, Ky.—Bids will be received until October 31 by the Kentucky State Highway Commission for the construction of 52.2 miles of roads, including six projects covering a total of 27.9 miles of surfacing and five projects covering 24.3 miles of grade and drainage construction. The following work is involved:

Anderson County—5 miles of surfacing Lawrence-Bardstown road

Hopkins County—3.7 miles of surfacing on Madisonville-Sacramento road

McLean County (two projects)—5.6 miles of grade and drainage construction on Calhoun-Beech Grove road; 5.7 miles of similar construction on Beech Grove-Eastwood Ferry Road

Meade County (three projects)—3.7 miles of surfacing on Flaherty-Hog Wallow road; 2.8 miles surfacing on Millers Mill-Ekron road; 5.6 miles surfacing on U. S. 60-Paynesville road

Nelson County—3.7 miles grade and drainage construction on Bardstown-Elizabethtown road

Ohio County—7.1 miles surfacing on Fordsville-Owensboro road

Todd County (two projects)—3 miles grade and drainage construction on Clifty-Kirkmansville road; 6.3 miles on Elkton-Clifty-Kirkmansville road

Sees Acute Need for Building Safe Highways

In Designing and Constructing Roads Provision Must Be Made to Facilitate Operation of Motor Vehicles at High Speeds

By E. E. DUFFY.

A signboard ten feet square with the big lettered words: "Danger—Sharp Curve" clearly outlined against a background of black and white stripes is placed in plain view along a highway in Iowa. Two people were recently placed in a hospital because they didn't see that warning.

This merely illustrates that in automobile accident prevention, chief consideration must be given to the human equation, personal element, or whatever other name can be applied to human frailty.

State records show that 65 per cent or more of motor car accidents may be attributed to car operators and that a tenth to a third of the mishaps are due to the negligence of pedestrians.

Automobile accidents are increasing, taking the country as a whole. Car usage is growing for two reasons; 5000 cars are added to those present every day, and better roads and the tendency towards motorization lead to more intensive use of every motor car.

Much can be done, of course, to cut down the human factor in accidents, yet

there is this, too, to be considered. Highway facilities must be constructed that will reduce to a minimum the possibility of human error in driving cars.

Automobiles capable of high speeds are without doubt here to stay, unless some faster means of transportation is created. Laws cannot train man to be a better judge of speed or distance and so long as inadequate highway facilities exist car accidents will occur.

Fortunately, for most safe highway facilities there is a dollars and cents justification. Highway grade separations, whereby one road or street passes over another at intersections, compensate for their cost where traffic is heavy. Pedestrian tunnels, which permit foot traffic to pass safely and speedily under busy thoroughfares, also are economically feasible. The same is true of railroad crossing separations, of double-decked highways, of wide streets and roads.

Twenty-seven thousand people are yearly dying in car accidents. That is too many.

AVIATION, AIRPORTS AND AIRWAYS

Mobile Airport Dedication.

Mobile, Ala.—A. D. Spottswood, secretary of the Mobile Chamber of Commerce, announces that dates for the dedication of the Mobile airport have been changed from November 10 and 11 to November 8 and 9, because of army aviation regulations. Army and navy planes from Pensacola, Montgomery and Birmingham are expected to participate in the dedicatory exercises.

Tri-Motored Plane Built in Texas.

Temple, Tex.—Said to be the first tri-motored airplane built in the South, a new plane left here a few days ago for San Antonio, its home port. The plane was built in the Temple plant of the Texas Aero Corporation and was designed by George Williams, president of the corporation, who piloted it on its test flight.

Baltimore-New York Air Line

A new passenger air line will be established between Baltimore and New York, it is announced, by the Baltimore Airways, Inc., of which Edward Handler, Baltimore, is president. Bellanca six-passenger monoplanes will be used in the service and, according to present plans, the Newark Airport will be used for the New York terminal and Handler field for the Baltimore terminal. A plane will leave both cities daily.

Train-Plane Service Chicago to Gulf

St. Louis, Mo.—According to an announcement here the Illinois Central Railroad and the Continental Air Service Inc., on October 28 will inaugurate a train-plane service between Chicago, St. Louis and New Orleans. Schedules provide for the departure of passengers from Chicago or St. Louis by train, transferring to planes at Memphis, Tenn., for Vicksburg, Miss., or New Orleans. Amphibians will be used on the southern section of the route and land planes on the northern section.

To Dedicate Georgia Airport

Waycross, Ga.—The new Ware County airport about three miles north of Waycross will be dedicated November 26, it is announced, the dedicatory program to be arranged by the Ware County Commissioners, in cooperation with the Ware

County Chamber of Commerce. The airport has been developed along lines recommended by the government and is said to afford one of the finest natural landing fields in the country.

20-Story Fort Worth Building to House Aviation Companies

A 20-story office building, to be devoted primarily to aviation companies, will be erected in the center of the business district of Fort Worth, Texas, according to A. P. Barrett, president of the Southern Air Transport, Inc., Fort Worth, and vice-president of the Aviation Corporation, New York. Plans call for a tower, 50 by 50 feet, to be buttressed on two sides by subordinated units set back on both front and side, set-backs to start at the eleventh floor and continue on successive floors until the last two stories are contained entirely within the tower.



Aviation Building for Fort Worth

The structure will be 275 feet high and in addition to the 20 stories there will be four windowed attics.

Tenants now occupying the structures on the site of the proposed new building have been notified to give up their quarters by February and it is thought construction will be started soon after the buildings have been vacated. The color scheme of the structure will involve a dark granite base, with brick above it, gradually lightening until it becomes nearly white at the top. The high-borne and serrated parapet will be flooded with lights. Above the show windows on the first floor will be a panel in polychrome terra cotta showing in low relief the progress of aviation, the panel to be broken by the base of the tower. A 3-story arch over the main entrance will be filled with bronze and plate glass and over the entrance itself will be a large bronze airplane.

Plans for the structure have been drawn by Wyatt C. Hedrick, Inc., Fort Worth, and the project to be undertaken by the Aviation Building Company, of which Mr. Barrett is vice-president.

655,689 Pounds Mail by Airplane

Washington, D. C.—According to the Postoffice Department, 655,689 pounds of mail were transported by airplane during September, as compared with 698,062 pounds in August, the daily average for September being about 1412 pounds less than for August. With a total of 158,987 pounds, the Chicago-San Francisco route led in September, while the New York-Chicago route was second with 153,077 pounds, and the Salt Lake City-Los Angeles route third, with 64,221 pounds.

Motion Pictures in Flight Training

Tulsa, Okla.—Officials of the Spartan School of Aeronautics of this city, are planning what is thought to be an innovation in flight training, which involves the projection of slow-motion pictures before the students, designed to show in minute detail the most common errors in flying. Each maneuver will be analyzed in an accompanying talk by an instructor and corrections explained to help the student in understanding flight technique. Motion pictures will be made for class room purposes of take-offs, landings, banks, turns and other maneuvers, and it is planned to supplement the screen by installing a dummy cock pit in the class room to show the proper manipulation of controls.

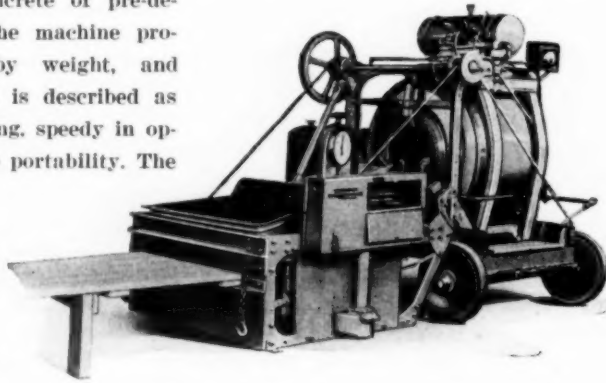
NEW AND IMPROVED EQUIPMENT

Koehring 10-S Weigh-Mix

Combining its 10-S Dandle mixer with a weighing device, the Koehring Company, Milwaukee, Wis., has produced the Koehring 10-S weigh-mix, designed for jobs requiring concrete of pre-determined strength. The machine proportions aggregates by weight, and water by volume, and is described as accurate in proportioning, speedy in operation and of extreme portability. The weighing device consists of a 2,500-pound all-metal platform scale, a cradle to carry the scale and receive the skip, a saddle to protect the scale from the possibility of a dropped skip, vibrator for cleaning the skip quickly and thoroughly and a two-wheeled rubber tired trailer to facilitate transportation.

Each material — cement, sand and stone — is weighed separately on the three-beam scale, all materials being weighed in the skip. An indicator dial registers the desired weight on the beam. The water is measured by a water volume measuring tank. The skip is cleaned automatically by a vibrator as the materials are being shot into the

drum during charging and is ready for each batch. The operator controls charging as well as mixing and discharging, all operations being centralized, and speed in weighing is aided by the use of the double faced indicator dial, with a



Produces Concrete of Pre-Determined Strength

pointer in full view of the shovelers, the inspector and the operator.

Lorain-45 Shovel

Supplementing its present line of products, the Thew Shovel Co., Lorain, Ohio, announces the Lorain-45, a new $\frac{3}{4}$ -yard capacity shovel, crane, clamshell and dragline, in which the basic design and construction principles of the Lorain-55 and the Lorain-75 are reflected. The new machine is built to the Thew center drive design in turntable, truck and shovel boom, the superstructure or turntable being powered by a Waukesha type H. S. motor with a $5\frac{1}{2}$ -inch bore, $6\frac{1}{2}$ -inch stroke, developing 71 horsepower at 1000 revolutions per minute. Power transmission consists of a power take

and a silent chain drive carrying the power directly to the center of the drive pinion which meshes directly with the 3 power shafts, the hoist, swing and crowd or travel shafts. Each power shaft is independently controlled.

The superstructure is mounted on a 2-speed Thew center drive crawler, similar to the Lorain-75 mounting but modified for the $\frac{3}{4}$ -yard capacity. All propelling gears, steering clutches, etc., run in a constant oil bath in a heavy steel crank case placed high to afford generous ground clearances. Steering clutches on the crawler are mounted on splined shaft sections. Travel speed of the crawler is $1\frac{1}{2}$ miles per hour climbing a 15 per cent grade, while the low speed is $\frac{3}{4}$ mile per hour, climbing a 30 per cent grade. The Thew center drive shovel boom is employed, in which the shipper shaft is placed at the center of the boom, or further ahead and in a lower position, permitting the dipper stick to attain a greater vertical angle. The boom is all-steel, full box-section, while the dipper stick is an all-steel welded rectangular section with a patented "far reach" greenhorn at one end.

An automatic power dipper trip is used on the machine, located on the turntable and consisting of a small clutch device on the end of the swing shaft. The crane, clamshell and dragline booms are all-steel latticed, in 2 sections, with interchangeable boom heads. For the dragline machines, the Thew patented 2 sheave fairlead is used, the pivoted lower sheave automatically maintaining a correct straight lead from fairlead to bucket. In the clamshell tagline the lower sheave is also pivoted so that a straight lead from the tagline to bucket is constantly and automatically maintained.

Differential Chain Hoist

A differential chain hoist, said to possess three exclusive features, is announced by Robbins & Myers, Inc., Springfield, Ohio. Timken thrust bear-

ings in the lower hook permit easy turning of the load, besides reducing chain and upper sheave wheel wear caused by chain twisting. Sheaves are of Aremite, an alloyed iron produced in the Robbins & Myers foundry, of unusual hardness, durability and tensile strength. Aluminum finish is used throughout, with exception of the chains, providing protection against damage from exposure. Chains are of special analysis steel, heat treated and electrically welded. The hoist is manufactured in five sizes with capacities ranging from $\frac{1}{4}$ of a ton to 2 tons.



Made in 5 Sizes



$\frac{3}{4}$ Yard Shovel, Crane, Clamshell and Dragline

CONSTRUCTION DEPARTMENT and NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Fla., Jacksonville—Curtiss Flying Service, Inc., 27-29 W. 57th St., New York, reported, negotiating to acquire site south of St. Johns River bridge, west of St. Johns Ave., South Jacksonville, 1800x1500 ft., for airplane and seaplane port.

Fla., Miami—Curtiss Flying Service, Inc., 27-29 W. 57th St., New York, has plans complete and will let contract within 2 weeks for hangars; Stone & Webster Engineering Corp., Engr., 120 Broadway, New York. 10-17

Fla., Miami—International Flying Service Co., 521 Ingraham Bldg., erect 2 hangars, Venetian Causeway Base, and 79th St. Causeway; each 100x100 ft., 20 ft. clearance, 3 ramps, platforms and shelters at first site and 2 at other; start work about Nov. 1; building \$60,000; field work \$20,000; designs and bids now wanted on canopy for shelters; owner builds; Edward O. Smith, Engr.; Carl Squires, Asst. Engr.

La., New Orleans—Navy Dept., Ernest Lee Jahneke, First Asst. Sec., Washington, D. C., establish airport for land and sea-planes, Algiers Naval Station; 400 x 2500 ft.; level field and construction hangars and ramps; operate in conjunction with naval air base, Pensacola, Fla.

Md., Baltimore—City, Milton J. Ruark, Sewerage Engr., City Hall, receives bids Oct. 30 for drain to serve municipal airport; about \$110,000.

Md., Baltimore—Curtiss Airports Corp., care Kenneth Franzheim, Archt., 345 Madison Ave., New York, establishing 260 acre airport, Green Spring Ave. and Smith Ave.; grading under way, by Timothy Bresnan & Sons; 2 hangars being erected by Engstrom & Wynn, 1117 Chapline St., Wheeling, W. Va.; probably erect administration building in Spring; plans out on heating, plumbing, ventilating and lighting; Stone & Webster Engineering Corp., 49 Federal St., Mass., Gen. Contr. 10-3

Miss., Clarksdale—Bd. of Supervisors of Coahoma County opens bids Nov. 4 at Office of Clk., Chancery Court, Friar Point, for erection and completion of club house for Clarksdale and Coahoma County airport. 6-20

Mo., Kansas City—O. K. Hunsaker, Sec., of Aircraft Finance Corp., Los Angeles, Calif., reported, plans forming \$30,000,000 aviation manufacturing and air express corporation with headquarters here; negotiations practically complete for acquiring controlling interest in 6 or 8 airplane plants, making planes of all sizes and types.

Mo., Moberly—Guardian Aircraft Corp., capital \$250,000, incorporated; Derek White, St. Louis; Fred Priesmeyer, Moberly. 10-17

Mo., St. Joseph—Barling Aircraft, Inc., capital \$100,000, chartered; W. H. Barling, Hayden S. Campbell.

Mo., St. Louis—Axelson Machine Co., R. M. Pease, Mgr., Walsh and Oak Hill Ave., erecting plant addition; 30x50 ft.; to be used by Axelson Aircraft Co. for overhauling and repair work on airplane motors.

Mo., St. Joseph—Bird Wing Commercial Aircraft Co., Carl Wolfley, Mgr., St. Joseph Airport, reported, drawing plans for \$50,000 plant; 1 story, brick; private plans.

N. C., Asheville—Pochontas Air Transport Corp., Bluefield, negotiating with Chamber

of Commerce to acquire Asheville-Hendersonville airport.

Okla., Ada—City votes Oct. 29 on \$60,000 bond issue for airport, etc. See Financial News Columns—Bond Proposed. 8-15

Okla., Miami—City, W. L. Rush, Mayor, plans \$100,000 bond issue for airport.

Okla., Oklahoma City—Curtiss Flying Service, Inc., 27-29 W. 57th St., New York, let contract to J. F. Russell Construction Corp., Brook and Bloom St., Louisville, Ky., at \$120,000 for hangar and service depot; 127x143 ft., steel, conc., brick, conc. floors, 2-in. deck and comp. roof; install shop equipment, lathes, etc.; Stone & Webster Engineering Corp., Engr., 120 Broadway, New York; Geo. M. Bartlett, Archt., 103 Park Ave., New York. 9-26

S. C., Columbia—Curtiss Flying Service, Inc., 27-29 W. 57th St., New York, has plans complete and will let contract within 2 weeks for hangars; Stone & Webster Engineering Corp., Engr., 120 Broadway, New York. 10-17

Tenn., Clarksville—Clarksville Aviation Corp., Collier W. Goodlett, Pres., receiving bids on hangar; steel, 80x100x18 ft., complete. See Want Section—Machinery and Supplies and Building Material and Equipment. 10-3

Tenn., Knoxville—Lee A. Gridley Construction Co., Daylight Bldg., has contract for leveling Bearden Field; 2 diagonal runways to be laid out; Knoxville Aero Corp. to operate as city's agent. 8-22

Texas—Dept. of Commerce, L. S. Elliott, Airways Extension Supt., Washington, D. C., receives bids in 30 to 60 days for lighting emergency landing fields between Brownsville, Houston and San Antonio.

Tex., Dallas—Constructing Q. M. Hensley Field, started constructing army hangar and gasoline tanks.

Tex., San Antonio—Pan-American Aero Corp., being formed by Jos. Palmer, E. A. Reilly and associates; negotiating with chamber of commerce to establish airplane plant to build tri-motored passenger planes designed by Jos. Palmer; powered by 3 small 60-h. p. Velle motors. 5-16

Tex., Wichita Falls—Wichita Falls Airport Co., C. W. Cahoon, Pres., City Natl. Bank Bldg., increasing capital \$25,000 to \$75,000 to provide funds for additional improvements at municipal airport, including passenger station, for which plans are being drawn; start work on runways within 30 days.

W. Va., Clarksburg—Chamber of Commerce, J. M. Carskadon, Chrmn., Aviation Committee, secured option on 40 acres, Buckhannon Rd., known as Patton Farm, for airport; organize corporation to place airport on firm business basis; may establish flying school. 5-16

W. Va., Wheeling—Farman Bros. of France, Harrison R. Tucker, 1425 S. Quaker St., Tulsa, Okla., American representative, reported, postponed formation of American company and erection of airplane plant. 8-22

Bridges, Culverts and Viaducts

Proposed Construction

Georgia—State Highway Bd. let contracts for 6 bridges and culverts. See Roads, Streets, Paving.

Ga., Augusta—State Highway Bd. of Georgia, Sam Tate, Chmn., East Point, and State Highway Comm. of South Carolina, C. E. Jones, Chmn., Columbia, considering plans to rebuild bridge across Savannah River at Sand Bar Ferry, near Augusta; damaged by recent floods.

Ky., Louisville—City, Bd. of Public Works, William B. Harrison, Mayor, plans underpass at Spring St. and Louisville & Nashville R. R. tracks; reconstruct bridge over Beargrass Creek, at Quarry St.; cost \$60,000; build Lexington road; City Engr. preparing plans.

Maryland—State Roads Comm., received low bids for 2 bridges. See Roads, Streets, Paving.

Md., Baltimore—City, Wm. F. Broening, Mayor, probably start construction after Jan. 1, 1930, on proposed Eastern Ave. underpass, from point west of Haven (formerly Eighth St.) to Macon (formerly Thirteenth St.), north of Eastern Ave.; 154-ft. wide; J. E. Greiner Co., Consit. Engr., Lexington Bldg.; Chas. F. Goob, Ch. Engr.; lately noted Bd. of Estimates approved plans. 9-22

Miss., Quitman—Clarke County Bd. of Supvrs. receives bids Nov. 5 for bridges in Dist. 4 and 5; P. H. Pipkin, Engr.

North Carolina—State Highway Comm. received low bids for 2 bridges. See Roads, Streets, Paving.

Tenn., Knoxville—Steel & Lebby, Engrs., Houston Bank Bldg., Knoxville, will submit plan for 54-ft. roadway on Henley St. bridge, cost less than \$1,000,000; Foundation Co., 101 Marietta St., Atlanta, probably submit proposal. 7-25

Tex., Bay City—War Dept., Washington, D. C., approved plans State Highway Comm., Austin, for bridge across Colorado River west of Bay City, Matagorda County. 10-17

Tex., Beeville—Bee County plans expending \$150,000 to repair bridges and build drainage structures. See Financial News.

Tex., Fort Worth—H. K. McCollum Construction Co., Fort Worth Natl. Bank Bldg., Fort Worth, low bidder at \$161,765 for East Fourth St. underpass beneath Rock Island R. R. tracks. 9-26

Tex., Houston—City Council, W. E. Monteith, Mayor, received low bid from Don Hall, Cotton Exch. Bldg., \$110,000, for Houston underpass in connection with erection of Southern Pacific passenger station; approach walls to underpass, 200 ft. long; covered section of underpass 73 ft.; two 21-ft. lanes for vehicles; 8-ft. walk; H. L. Shaw, City Engr.

Tex., Houston—City, H. L. Shaw, City Engr., receives bids soon for 12 to 16-ft. rein. conc. Northwood St. Bridge; replace present wooden structure; W. E. Monteith, Mayor; S. A. Starkey, Street and Bridge Commr.

Tex., Port Arthur—Jefferson County Comm., Beaumont, considering rebuilding bridge over Taylor's Bayou on Port Arthur-Sabine road near Gulf refinery; replace upper structure of bridge; convert bridge into 2-way structure; raise span to safe level above water; cost about \$25,000; awaiting permit from Maj. Milo P. Fox, U. S. Dist. Engr.

Tex., Port Arthur—See Roads, Streets, Paving.

Contracts Awarded

Fla., Pensacola—Nashville Bridge Co., Nashville, Tenn., has contract to furnish material and erect double leaf type bascule span for Pensacola Bay Bridge in center of bay, with 100-ft. clearance; Northwest Florida Corp., Panama City, has contract for construction. 10-3

Fla., Pensacola—War Dept., Washington, D. C., approved new route of Pensacola Bay Bridge and plans for substituting bascule draw for swing draw; Northwest Florida Corp., Panama City, has contract for construction. 10-3

Ga., Columbus—Barlow-Gordy Contracting Co., Garrard Bldg., reported, has contract for conc. bridge over Weracoba Creek on Thirteenth St. at Eighteenth Ave. 10-10

Miss., Holly Springs—Marshall County Bd. of Supvs., let contract to I. J. Hurdle for 270-ft. bridge near old Treadwell Place, Dist. 2 to 1.

Okl., Walters—State Highway Comm. let contract for 3 bridges. See Roads, Streets, Paving.

Tex., Lubbock—Panhandle Construction Co., Lubbock, has contract, \$212,467, for underpass under Santa Fe Ry. tracks on North Avenue H. 10-3

W. Va., Ceredo—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, let contract to American Bridge Co., 71 Broadway, New York, for 700 tons struct. steel for bridge.

Canning and Packing Plants

Fla., Auburndale—Florida Grapefruit Canning Co., C. E. Street, Pres., Bradenton, reported, acquired plant with capacity of 50,000 cases annually; also has option on plant in another section of State.

Fla., Cocoa—Nevins Fruit Co. constructing pre-cooling plant and coloring room addition; W. H. Bower, Cocoa, has contract for carpentered work; R. Grisham, for masonry.

Fla., Lake Wales—Mountain Lake Corp., let contract to G. A. Miller, Inc., 312½ Twigg St., Tampa, for 5 room precooling plant as part of packing plant; 100x40 ft.; 1 story; cost \$18,000.

Tex., Brownsville—H. H. Banker and associates, reported, construct \$20,000 canning plant.

Tex., Brownsville—Rio Grande Canneries, incorporated; W. C. Craig, H. L. Thomas.

Tex., McAllen—F. L. Moore, has contract for \$30,000 packing plant for McAllen Citrus Assn.; install modern machinery. 9-12

Coal Mines and Coke Ovens

Va., Dorchester—Wise Coal & Coke Co. expanding \$200,000 sinking shaft and erecting tipples.

Va., Pardee—Blackwood Coal & Coke Co. opening new drift into high splint seam of coal on Black Mountain and constructing conveyor line.

Va., St. Charles—Benedict Coal Corp. expanding about \$250,000 constructing new unit to tipple, new incline plant to mine recently opened and for equipment to plant.

W. Va., Eccles—Virginia Bridge & Iron Co., P. O. Drawer 925, Roanoke, Va., advises has contract for 700 tons struct. steel, involving head frames, conveyor galleries, cleaning house, screen house, etc., for Mines No. 5 and 6 of Chicago, Wilmington & Franklin Coal Co., 332 S. Michigan Ave., Chicago, Ill. 10-17

Clayworking Plants

Ky., Murray—West Kentucky Clay Co., capital \$15,000, incorporated; Roy W. Boatright, Charles Hord.

Tenn., Daisy—B. Mifflin Hood Co., advises that improvement to clay working plant No. 3 is for construction of new dryer manufactured by the Carrier Engineering Corp., 850 Frelinghuysen Ave., Newark, N. J., and for 2 additional kilns, cost about \$40,000. 10-10

Concrete and Cement Plants

Tenn., Kingsport—Pennsylvania Dixie Cement Corp., John A. Miller, Chmn. of Bd., W. H. Klein, Gen. Mgr., plans to start soon on reconstructing plant; eventually to be converted to wet process; to resume operations Jan. 1.

Cotton Compresses and Gins

Tex., Corpus Christi—Aransas Compress Co., reported, construct third storage unit on 35 acre site with capacity of 30,000 bales south of present No. 2 unit; install sprinkler system; trackage for 60 railroad cars.

Tex., Mansfield—Stewart Oil Co., capital \$15,000, incorporated; H. A. Dillard, C. H. Stewart.

Tex., Violet—Serv-U Gin Co., capital \$40,000, incorporated; J. W. Jalufka, E. B. Ward.

Drainage, Dredging and Irrigation

Ala., Huntsville—City Council named committee to make survey and estimate cost of drainage Big Springs Dist., subject to overflow.

Arkansas—War Dept., Washington, D. C., allotted \$35,000 for work on Ouachita and Black Rivers.

Fla., Coral Gables, Miami—See Miscellaneous Construction.

La., Kahns—Bd. of Commrs. of Gravity Drainage Dist. No. 2 of West Baton Rouge Parish opens bids Nov. 5 for enlarging drainage canals, approx. 250,000 yd.; Thos. H. Howes, Engr., Oscar; F. J. Whitehead, Sec., Port Allen.

Md., Baltimore—Ch. of Engrs., U. S. Army, Washington, D. C., approved dredging 106,480 cu. yd. from Broad Creek; U. S. Engr. Office, Custom House, soon call bids.

Miss., Blue Mountain—Formation of New Owl Creek and West Hatchie Drainage Dist., and Fourth Creek Drainage Dist. authorized by Bd. of Supervisors of Tippah County.

Tex., Brownwood—Brownwood Water Dist. No. 1 now acquiring site, pipe line right-of-way, etc., for irrigation system to include 12,000 to 15,000 acres on Jim Ned and Pecan Bayou Rivers; D. W. Ross, Engr., Brownwood; R. A. Thompson, Consol. Engr., Dallas. 10-17

Tex., Galveston—U. S. Engr. Office has low bid from Atlantic, Gulf & Pacific Co., 15 Park Row, New York, at \$80,547.60, for dredging 1,450,000 cu. yd. place measurement, 111,000 cu. yd. overdepth, in channel, Galveston harbor to Texas City. 9-26

Tex., La Grange—City, H. W. Speckels, Mayor, opens bids Oct. 28 for excavating for spillway on Ehlers home property and cleaning and digging ditch leading into spillway; R. E. Schiller, Engr., Courthouse.

Tex., Port Arthur—City tentatively set Nov. 26 as day for voting on \$280,000 for drainage.

Tex., Roma—Starr County Water Control & Improvement Dist. No. 1 submitted plans to Bd. of Water Engrs. for plant with pumping station here; irrigate 38,000 acres; \$1,500,000 bonds voted; Myers, Noyes & Forrest, Engrs., Mercantile Bank Bldg., Dallas. 8-9

Va., Hampton Roads, Norfolk—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receives bids Nov. 6 for dredging at naval operating base; \$130,000 available.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Bayou Labatre—Bayou Power & Light Co., reported, plans transmission line from here to Cedar Point; distribute power through large area surrounding Bayou Labatre.

D. C., Washington—E. B. Foulke, 7148 Alaska Ave., N. W., Washington, reported, has contract at \$41,377 for repairing boilers at Capitol power plant; M. H. Pagengardt, Philadelphia, Pa., at \$119,673 for installing underfeed stokers. 7-11

Fla., Williston—City plans extension of power line between Williston and Montbrook.

Ga., Cartersville—City voted against sale of power plant; will continue to operate. 9-5

Ga., Milledgeville—Dixie Construction Co., A. C. Polk, V. P., Birmingham, Ala., constructing hydro-electric project at Furman Shoals on Oconee River about 4 miles northeast of here for Georgia Power Co., Atlanta; project includes storage lake to cover 12,000 acres; plant to have 60,000 h. p. capacity; detailed design of plant not yet complete; no other important contracts let. 9-26

La., Baton Rouge—Louisiana Steam Products, Inc., newly formed subsidiary of Engineers Public Service Co., Inc., 120 Broadway, New York, will construct boiler plant capable of supplying to plant of Standard Oil Co. of New Jersey, estimated refining demand of over 6,000,000 lbs. of steam per annum and an electric generating plant of 45,000 kw. capacity, to cost \$6,000,000; steam will be generated at 630 lbs. per sq. in. pressure and put through turbines having an exhaust pressure of 135 lbs. at which pressure it will be sold to Standard Oil Co. for refining plant; by-product electricity generated in this process will approximate 260,000,000 kwh per annum, half of which will be sold to refining plant for power purposes; balance to be sold to other subsidiaries of Engineers Public Service Co.; plant will burn as fuel sludges and waste fuel from refining processes of Standard Oil plant and will use natural gas for balance of requirements; construction to begin immediately; work being handled under contract by Stone & Webster Engineering Corp., 49 Federal St., Boston, Mass.

La., Bogalusa—City receives bids Nov. 5 for furnishing material and installing white way street lights. See Want Section—Bids Asked.

La., Lafayette—Bd. of Trustees, plans installing additional engine at light plant; J. Frank Ard, Ch. Engr.

Mo., Perryville—City, reported, closed contract with Missouri General Utilities Co., owned by American Utilities Co., 600 N. Second St., Harrisburg, Pa., for installation of white way in business district.

Mo., Rolla—Gasconade River Power Co., Pioneer Trust Bldg., Kansas City, reported, granted permit by Federal Power Commn., Washington, for \$10,000,000 hydro-electric project on Gasconade River; project will create 11,000 acre lake along river in Pularski, Phelps, Maries and Osage counties; dam 1750 ft. long, 110 ft. wide; develop 20,000 primary h.p.; installed capacity 50,000 h.p.; preliminary survey and work on dam have been made. 12-6-28

Tenn., Franklin—Franklin Power & Light Co., reported, granted power franchise. 7-18

Tex., Farmersville—City constructing building for light plant; install 3 units.

Tex., Fort Worth—Diamond Hill Civic League, J. J. Boydston, Pres., reported, interested in white way system.

Tex., Presidio—Central Power & Light Co., Frost Natl. Bank Bldg., San Antonio, contracting following work; installing General Electric single phase 50 kv-a. standard unit, 66,000 to 2300 volt-substation and 2300 volt metering equipment at Harwood; work to be started in 30 days by company's forces; at Presidio, work will be done by company's forces and material used being transferred from one of company's other plants. 10-10

Tex., San Angelo—West Texas Utilities Co., Abilene, reported, construct 18 miles transmission lines from Miles to Atlantic pipe line station.

W. Va., Charleston—Appalachian Electric Power Co., Bluefield, reported, construct substation at Central Ave. and Elm St.; 1 story, conc., brick and steel; cost \$20,000.

W. Va., Elkins—City votes Nov. 26 on \$135,000 electric light bonds. 8-29

Fertilizer Plants

Ark., Batesville—C. M. Conway, Texarkana and Ike Kempner, 2100 Arch St., Little Rock, reported, constructing \$15,000 fertilizer plant; 10,000 ton capacity.

Flour, Feed and Meal Mills

Ark., Little Rock—Whole Wheat Milling Co., capital \$15,000, incorporated; Ben F. Myers, 2022 W. 17th St.

Md., Hagerstown—D. A. Sticknell & Sons, Inc., will probably rebuild flour mill on Baltimore St., burned at loss of \$250,000.

Mo., St. Joseph—Famo Feed Milling Co., 4409 Cherokee St., reported, construct \$30,000 feed mill.

Tex., Bishop—John A. Weunsche construct feed manufacturing plant; 40x50 ft.; install modern machinery.

Foundry and Machine Plants

Ky., Lexington—Universal Steam Motors, Inc., John R. Humphrey, Pres., Guaranty Bk. Bldg., plans \$100,000 plant in 1930; George W. Hadden, Ch. Engr. and Gen. Mgr. of Production.

Mo., Springfield—Thomas Poultry Car Co., C. O. Frisbe, V.-Pres., Chicago, Ill., subsidiary of North American Car Corp., establish plant to employ 50 to 75; leased yard 500x75 ft.

Mo., St. Louis—See Airports, Airplane Plants, etc.

Mo., St. Louis—Piston Ring Castings, Inc., Henry Haacke, Pres., 5544 Maze Place, formed to manufacture piston ring castings; expend about \$90,000 for machinery and equipment to produce 100,000 castings daily; employ about 80.

Mo., St. Louis—Moon Motor Car Co., 440 N. Main St., plans manufacturing new automatically operated machine for agricultural service, including parts production and assembling; carry out expansion, continuing production of automobiles; arranged for stock issue of 100,000 shares, no par value.

S. C., Sumter—Johns Evans Welding Co. soon rebuild burned shop.

Gas and Oil Enterprises

Ala., Muscle Shoals—Shell Petroleum Corp., c/o Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., reported, acquired Muscle Shoals Oil Co.

Ark., Hoxie—Arkansas Power & Light Co., Pine Bluff, granted franchise for serving natural gas; distribution system will be installed by own forces. 10-17

Ga., Atlanta—Norwood Griffin Co., Bona Allen Bldg., Atlanta, reported, has contract for 4 governor houses for Atlanta Gas Co.; 1-story; steel sash; conc. roof. 10-17

Ga., Savannah—Mexican Petroleum Corp. of Georgia, subsidiary of Pan-American Petroleum & Transport Co., reported, let contract to J. A. Tison's Sons, 725 Whitin St., Savannah, for clearing 50 acre site for company's \$1,000,000 plant; rein. conc., struc. steel and brick, comp. roof, steel sash and doors; A. M. McKee, Ch. Engr.; S. N. Shapiro, care of company, in charge of construction; plans by owners engineering department; will award further contracts shortly. 10-10

Ky., Ashland—Nancy Oil & Gas Co., capital \$50,000, incorporated; C. F. Sayre, J. C. Jester.

La., Lafayette—Mayors of Lafayette, De Ridder, Morgan City, Welsh, Marksville, Eunice, Abbeville, Crowley, DeQuincy, Opelousas, Rayne, Baldwin, New Iberia and Jennings interested in securing natural gas from Monroe gas fields; will hold meeting to discuss project Nov. 5, Court House Bldg., Lafayette.

Miss., Laurel—Shell Petroleum Corp., c/o Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., reported, constructing wholesale storage plant near Maple St.; Robert Brennin, Aberdeen, in charge work.

Miss., Vicksburg—Pan-American Petroleum Co. construct \$8000 bulk oil depot on Cherry St.; 1 story, fireproof.

Miss., Vicksburg—Southern Natural Gas Gas Corp., First National Bank Bldg., Birmingham, Ala., reported, closed distribution contract with Vicksburg Gas Co.; Southern Natural Gas Co. to construct branch line, 28 miles long, 8-in. pipe, from main transmission line to Vicksburg.

Mo., Kansas City—Standard Oil Co., 5301 E. Ninth St., acquired additional tract in North Kansas City, for probable erection of warehouse.

Mo., Pleasant Hill—A. H. Oil Co. incorporated; J. Howard Allen, Fay W. Allen.

Mo., Kansas City—Perkins Oil & Gas Co., incorporated; Leslie T. Martin, Kansas City Club; M. E. Knapp, 5617 Park Ave.

Mo., Springfield—Fred Painter Oil Co., Washington Ave., incorporated; Fred Painter, 920 S. Delaware St.

N. C., Raleigh—Raleigh Gas Co. incorporated; W. H. Pittman, I. B. Lake.

North Carolina—Southern Cities Utilities Co., 1612 Market St., Philadelphia, Pa., reported, acquired from Electric Bond & Share Co., 2 Rector St., New York, gas properties serving Raleigh and Asheville; Raleigh Gas Co., Raleigh, and Asheville Gas Co., Asheville, lately incorporated as subsidiaries of Southern Cities Utilities Co., to own and operate 2 systems.

Okla., Madill—Oklahoma Natural Gas Co., 112 N. Broadway, Oklahoma City, C. S. Thompson, Consult. Engr., reported, construct gas line Ardmore to Madill.

Okla., Muskogee—Pontotoc Petroleum and Refining Co., increased capital \$100,000 to \$200,000.

Okla., Stigler—National Co-Operative Royalty Co., capital \$25,000, incorporated; A. T. Hill, Stigler; N. K. Williams, McCurtain.

Okla., Tulsa—Sheldon Oil Corp., 114 W. Third St., incorporated; W. W. and C. M. Sheldon.

Tenn., Cleveland—City granted gas franchise to Chattanooga Gas Co., Chattanooga. 8-8

Tex., Big Spring—Cosden Refining Co., Fort Worth Natl. Bank Bldg., Fort Worth, reported, constructing cracking plant and warehouse for lubricants.

Tex., El Paso—Pasotex Petroleum Co., Womble Blvd., construct \$10,000 addition to office building at refinery; H. T. Ponsford & Sons, reported, contractor. 10-10

Tex., Fort Worth—Westbrook & Co., Inc., capital \$30,000, chartered; W. L. Stewart, Capps Bldg.

Tex., Fort Worth—Tarrant Petroleum Co., capital \$75,000, incorporated; R. J. Cobden, 3105 University Drive.

Tex., Fort Worth—Pure Oil Co., Petroleum Bldg., Fort Worth, and 35 E. Wacker Drive, Chicago, constructing ten 1000 bbl. capacity tanks.

Tex., Grand Saline—Prairie Oil & Gas Co., Independence, Kansas, Cranfill-Reynolds Co., Tom E. Cranfill, 1013 Commerce St., Dallas, and Pure Oil Co., Petroleum Bldg., Fort Worth, reported, construct pipe line from gas field.

Tex., Houston—Shannon Oil Co. increased capital, \$30,000 to \$100,000.

Tex., Hearne—Brady Gas Co. incorporated; P. L. and A. B. Brady.

Tex., Houston—Roark Development Co. incorporated; R. W. Franklin, Cotton Exch. Bldg.

Tex., Houston—Houston Pipe Line Co., Petroleum Bldg., reported, extend line from Boling in Wharton County to serve new plant of Texas Gulf Sulphur Co.; first unit will be 13 miles long, second unit, 20 miles long; preliminary work of clearing right of way started.

Tex., Pampa—Pampa Pipe Line Co., capital \$100,000, incorporated; Reece S. Allen, G. L. Rowsey.

Tex., Port Arthur—Gulf Pipe Line Co., Gulf Bldg., Houston, reported, construct ten 80,000 bbl. capacity steel storage tanks on 303 acre site.

Tex., Silverton—Farmers Oil Co., incorporated; W. E. Schott, Bland Burson.

Tex., Stamford—Swenson Oil and Gas Co., incorporated; A. J. Swenson, Charles E. Coombes.

Texas—Standard Oil Co. of Indiana, 910 S. Michigan Ave., Chicago, Ill., reported, acquired through Dixie Oil Co., subsidiary, oil and ranch properties of W. T. Waggoner estate in Walbarger and Wichita counties.

Tex., Wichita Falls—Daniel Drilling Co. incorporated; Perkins-Snyder Bldg.

Tex., Wichita Falls—Producers Drilling Co., City Natl. Bank Bldg., capital \$50,000, incorporated; F. H. Gates.

Va., Covington—United Fuel Gas Co., subsidiary of Columbia Gas & Electric Co., both 61 Broadway, New York, reported, interested in constructing gas line from Floyd fields to extend to Harrisonburg, via Lexington and Staunton, Roanoke and Pulaski.

W. Va., Charleston—Kentucky Southern Gas Co., incorporated; C. F. Bauman, Union Trust Bldg.

W. Va., Charleston—South Ohio Gas Co., reorganization of Ohio Southern Gas Co., Union Trust Bldg., capital stock 1000 shares of stock without par value, C. B. Bauman, R. J. Skillman, incorporators.

W. Va., East Raintelle—Town votes Nov. 4 on granting 50 yr. gas franchise to C. I. Wall.

W. Va., Princeton—Godfrey L. Cabot, Inc., 294 Washington St., Boston, Mass., reported, plans applying for natural gas franchise.

W. Va., Roncove—Amere Gas Utilities Co. applied to city for 50 yr. gas franchise; Sayre & Bowers, Counsel; United Fuel Gas Co., subsidiary of Columbia Gas & Electric Co., both 61 Broadway, New York, also applied for franchise.

Ice and Cold-Storage Plants

Miss., McComb—Southern United Ice Co. started building and enlargement project, including storage plant, removing steam boilers and installing electric system, freezing tanks, runways, ice ramps and retail dept.; storage section, 64x100 ft., 60 ft. high, with 8000-ton capacity; install new machinery throughout; Eugene Loch, Local Mgr.; F. W. Bright, Construction Foreman.

N. C., Mount Airy—J. P. Lucas, V.-Pres., Southern Public Utilities Co., G. Grant Issacs, Mgr., Carolinas regional office of Bureau of Foreign and Domestic Commerce; Col. Wade H. Harris, all Charlotte, interested in erecting large cold-storage plant.

Tex., Coleman—O. D. Dillingham, Abilene acquired site, Commercial Ave. for 20-ton daily capacity ice plant; 62x80 ft.; ordered machinery; begin operations Jan. 1.

Va., Timberville—Natural Cold Storage, Inc., erect addition.

Iron and Steel Plants

Okla., Tulsa—Patterson Steel Co., 801 N. Xanthus St., plans \$40,000 storage and distribution plant; 100x150 ft., and 33x100 ft.

Land Development

Ala., Hollywood—Hollywood Country Club soon begin construction of 9 hole golf course, later extend to 18 hole; receiving bids for work; will straighten Shades Creek. 10-17

Ark., Little Rock—Pine Crest Memorial Park, H. A. Born, Pres., has 230 acres, for burial park; 55 acres of which has been developed, 120 acres to be developed now; construct roads; landscape, etc.; Chas. H. Mouresin, Archt., 612 Trademans Natl. Bank Bldg., Oklahoma City, Okla.

D. C., Washington—Birchwood Park Co., capital \$250,000, incorporated; J. Harry Welch, 710 14th St., N. W.

Florida—John A. Snively, V. P. Florida Citrus Exchange, and Pres. Hundred Lakes Corp., Winter Haven, and associates, who are promoting organization of a large company now have under option \$21,652,000 worth of Florida citrus groves, 19,250 acres in every part of citrus belt; planted acreage contains 1,174,439 trees, 36% of which are grapefruit, 10% tangerines, 54% oranges; Haskins & Sell Co., 15 Broad St., New York, Certified Public Accountants with W. D. Shaw, in charge, employed to determine cost of operating groves and net profit from fruit production. 9-12

Fla., Bartow—Siebel and Day, New York City, reported, acquired 425 acres of citrus groves and land in Polk County from Lake Garfield Nurseries Co., and Vet. L. Brown Bartow.

Fla., Apalachicola—Alfred I. duPont, Barnett Natl. Bank Bldg., Jacksonville, and associates formed local company, acquired 13 miles of water front land west of town; have no immediate plans for development.

Fla., Jacksonville—Arlington Corp., incorporated; F. F. L'Engle, Barnett Bldg.

Fla., Jacksonville—Edgewood Cemetery Assn., E. H. Paxon, developing cemetery on Edgewood Ave.; construct ornamental entrance; paved roads, etc.

Fla., Lakeland—Chandler-Davis Co., incorporated; Ralph Davis, 110 S. Bluefield Ave.

Fla., Lake Placid—Lake Placid Club, Lake Placid, N. Y., reported, plans development of golf courses, yacht basin, facilities for winter sports, clubhouse, etc. on 3500 acre site; work under supervision of J. R. Van Kleek, 97A Newbury St., Boston, Mass.

Md., Cambridge—Eastern Service Corp. incorporated; John E. Patten, Charles H. Seward.

Mo., Higginsville—Florence Gardens Co., incorporated; Fred H. Chambers, Wm. J. Leahy.

Mo., Kansas City—Spring Lake Farm Co. incorporated; E. C. Winters, Midland Bldg.

Mo., Kansas City—Central Missouri Orchards Co., capital \$30,000, incorporated; Dean S. Leshar, 1100 Grand Ave. Temple.

N. C., Aberdeen—Aberdeen Co., capital \$20,000, incorporated; R. W. Page, J. V. Healey.

N. C., Brevard—Rainbow Lake, Inc., chartered; Thomas H. Shipman, R. W. Everett.

N. C., Winston-Salem—Craft Realty Co., capital \$50,000, incorporated; S. I. Craft, 1418 W. Bank St.

Okla., Ada—City votes Oct. 29 on park bonds.

Oklahoma, Miami—City plans improvements to Riverview Park, acquired additional acreage; build swimming pool, etc.

S. C., Columbia—Dixie Development Co. incorporated; W. H. Greever, 4007 Ensor Ave.

S. C., Greenwood—Carolina Land Co. incorporated; R. E. McCaslan, Allen Banks.

Tenn., Gallatin—John M. Barnham, Gallatin, and associates, reported, acquired 1473 acres in Sumner County.

Tex., Dallas—Dallas County Club, H. A. Olmsted, Beverly Drive, reported, plans additional golf course.

Tex., Harlingen—See Sewer Construction.

Tex., Houston—Gulf Coast Improvement Co., H. C. Healy, Mgr., Chronicle Bldg., developing 13,000 acres for farming; construct graded road for each 40 acres with drainage plans under direction of Nagel, Witt & Rollins, Allen Bldg., Dallas. 10-17

Tex., Port Arthur—See Water Works.

Tex., Port Arthur—Gist Realty Co. increased capital to \$100,000.

Tex., Port Arthur—City, J. W. O'Neal, Mayor, plans park improvements, Gilham Circle, Sixteenth St., etc.

Tex., San Antonio—H. P. Miller, San Antonio, reported, acquired 10,000 acre ranch at Montel, on Nueces River; develop for sheep and goat breeding ranch.

Tex., San Antonio—P. J. Blackmon, reported, develop 1300 acre stock farm.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans open air stage and sunken gardens in Brackenridge Park; cost \$12,000; Gutzon Borglum, Designer, 213 Braham Blvd.

Tex., Weslaco—Delta Development Co., Inc., chartered; W. L. Forbes, E. C. Couch.

Va., Franklin—Vaughan Corp. incorporated; C. C. Vaughan, 3rd.

W. Va., Clarksburg—Bassel Development Co., capital \$25,000, incorporated; Henry W. Bassell, Western Rd.

W. Va., Wheeling—Wheeling Landscape & Improvement Co., capital \$25,000, incorporated; Ralph W. Snyder, 218 N. Erie St.

Lumber Enterprises

Ala., Attalla—Attalla Lumber Co., C. A. Roberts, probably rebuild warehouse and assembling plant, recently burned with \$75,000 loss.

La., Alexandria—Ferd Brenner Lumber Co. let contract to Thrall & Shea, 314 Pajo St., Lake Charles, for rebuilding 60,000 ft. capacity hardwood mill. 10-3

La., Alexandria—Kellogg Lumber Co., Inc., J. P. Kellogg, Pres., Monroe and Alexandria, acquired E. Sondheimer Co. plant, consisting of hardwood sawmill, yard, railroad and timber; repair plant and yard. 10-17

S. C., Lake City—M. McKann & Co., Inc., M. McKann, Pres., Royster Bldg., Norfolk, Va., acquired plant and other property of Deep River Lumber Corp., consisting of circular sawmill, 30,000 ft. daily; planing mill with resaw, etc.; principal output to be pine of very fine, soft textured variety; operate as Lake City Lumber Corp.; M. McKann, Pres. and Treas.; Roy Smith, V. Pres.; Mrs. A. W. Blossom, Sec. 10-10

Tex., Rice—Rice Lumber Co., capital \$14,000, incorporated; John B. Fortson, B. H. Clark.

Tex., Waco—B. & D. Lumber Co., capital \$10,000, incorporated; H. A. Wood, 3102 Ethel Ave.

W. Va., Elkins—Randolph Planing Mill Co. changed name to West Virginia Flooring Corp. and increased working capital to \$350,000; installing equipment.

W. Va., Mullens—Hills Bros. Lumber Co., Madison, acquired 1011 acres timber land, Wyoming County; erect sawmill near here.

Mining

Ark., Rogers—Pea Ridge Mining & Smelting Co., R. S. Cope, Pres., develop 200 to 700 acres consisting of unlimited quantities of ore, 20 to 40% metallic silver and with some gold; machinery not purchased. 10-10

Tex., Austin—Texas Quarries, Inc., Rex E. St. John, Mgr., Scarbrough Bldg., let contract to International Steel & Iron Co., Evansville, Ind., for first unit of stone fabricating mill, bet. E. 19th St. and Austin-Houston Hwy. and H. & T. C. Ry., Llano Branch; 1 story, all-steel, 265 x 128 ft., 33 ft. high, steel and glass windows; Bedford Foundry & Machine Co., Bedford, Ind., furnish 2 7/8-ton motor electric travel-

ing cranes, and 25-ton crane; Bloomington Limestone Co., Bloomington, Ind., 7 self contained open side planers; Willard F. Meyer Machine Co., Inc., Long Island City, N. Y., Type G saw, 12-ft. rip, 72-in. diamond blade; total est. cost including equipment \$250,000; plans office; 2 story, store; owner Archt.

Va., Staunton—Staunton Lime Co., Inc., capital \$50,000, chartered; Robert L. James; quarrying, mining and manufacturing stone, limestone, etc.

Metal-Working Plants

La., New Orleans—American Can Co., 602 N. Cortez St., has permit for \$24,000 addition, Toulouse and Cortez Sts.

Md., Baltimore—E. Z. Open Can Corp. changed name to Modern Can Co.

Miscellaneous Construction

Fla., Coral Gables, Miami—City Comm. appropriated \$15,000 for flood relief; City Engr. asked to gather all available machinery and start digging ditches, Sevilla Ave. to Coral Gables canal; plan to dam certain sections of canal to prevent overflow.

Fla., Miami Beach—Following plan docks on estates: A. J. Trumbull, V. Pres., General Motors Corp., Detroit, Mich.; Jorge B. Sanchez, Star Island; John J. Madden, 5701 Pine Tree Drive, William C. Coffin, Francis L. DuBosque, A. W. Ferguson and W. H. Kirn; 15 and 18 ft. long; I. C. Elston, Jr., 4545 Collins Ave., and W. M. Griffin, construct steel bulkheading and groynes along ocean front property, each 100 ft.

Fla., St. Augustine—City opens bids Oct. 30 for yacht pier and 2 comfort stations. 10-17

Ga., Augusta—Levee Comm., Thomas S. Gray, Chmn., soon start repairing levee.

Ga., St. Simons Island—W. D. Taylor applied to War Dept. for permission to construct wharf in Frederica River at Frederica; 12x30 ft., with approach 8x88 ft.

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, opens bids Oct. 26 for levee work, designated by district, name, location, estimated net yardage: Lower Tensas Levee Dist., Point Breeze Emergency Loop (763R), 85,000; Lafourche Levee Dist., Winchester Emergency Loop (198.5R), 50,000; Pontchartrain Levee Dist., Granada Emergency Loop (849L), 75,000; Gypsy Emergency Loops (933L), 90,000; Kenner-Trudeau (951L), 140,000.

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, has following low bids for levees, designated by name, bidder, est. net yardage, price bid: Lafourche Levee Dist.—Waguesback, Lewis-Chambers Construction Co., Inc., Canal Bank Bldg., New Orleans, 160,000, 18.92; Bon Secour Dameron & Kenyon, Port Allen, 160,000, 15.25; Alice, Lower Coast Construction Co., Godchaux Building New Orleans, Louisiana, 65,000, 22.0; Barataria Levee District—Jesuit Bend, Clarence Fox, 145,000, 17; Alliance, Whiteman Contr. Co., Inc., Louisiana Bldg., New Orleans, 40,000, 22.5; Amoretti, Whiteman Contr. Co., 35,000, 25.5; Pontchartrain Levee Dist.—Ben Hur, McWilliams Dredging Co., Canal Bank Bldg., New Orleans, 340,000, 20.7; Pointe-a-la-Hache, Lewis-Chambers Construction Co. 31.20; Myrtle Grove, Dameron & Kenyon, 11; Lower Tensas Levee Dist.—White Oak Levee Slide, J. Fred Gordon, Fayette, Miss., 6500, 39; Hard Times Levee Repair, Robinson Construction Co., Centerville, Miss., 28,000, 27.9; Vaulcuse Levee Slides, Wm. Junkin, 6000, 48; Mount Houmas Levee Slide Picard Construction Co., Inc., Hicks Bldg., New Orleans, 4000, 45; Atchafalaya River Levee Dist.—Hicks Levee, O. O. Ogden; Barberton Levee, O. O. Ogden; McCrea Crevasse, Sections 1, 2, 3, 4 and 5, O. O. Ogden, at \$40 per station for at in district. 10-10

La., Port Hudson—United Daughters of Confederacy, Mrs. F. P. Jones, Pres., Louisiana Div., Leesville, raising funds for erecting monument.

Missouri—Ch. of Engrs., U. S. Army, Washington, D. C., approved constructing 7550 ft. of dikes or retards, Pope Bend, Missouri River; U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, soon call for bids.

Mo., Kansas City—Missouri Pacific Lines, E. A. Hadley, Ch. Engr., St. Louis, completed excavation for \$225,000 grain elevator; 300,000 bu. capacity, Martin Ave. and Missouri Pacific tracks; conc. for foundations to be poured within 10 days; headhouse designed to handle 1,000,000 bu., to provide for enlargement of storage capacity; storage capacity to be built now to consist of 18 rein. conc. tanks; Eagle Elevator Co., Lessee, owned by Vanderalice-Lynds Co. and Henry

Lichtig & Co., both Bd. of Trade Bldg., Kansas City; M. A. Long Construction Co., Gen. Contr., 10 W. Chase St., Baltimore; following have sub-contracts: Excavating, W. C. Hill Construction Co., 501 Delaware Ave.; piling, E. A. Whitney & Sons, City Bank Bldg.; lumber, Dierks & Sons Lumber Co., 7901 Woodland St.; cut stone, Consumers Material Corp., Midland Bldg.; sand and gravel, Stewart Sand & Material Co., 1805 Grand Ave.

Mo., St. Joseph—Morrison System, Inc., Wm. G. Morrison, Pres., Dayton, Ohio, plans \$60,000 reduction plant; 1 story, brick.

Missouri—U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, opens bids Nov. 16 for constructing about 7550 lin. ft. standard pile clump dikes, or alternatively 7550 lin. ft. standard retards, Missouri River, Pope Bend, center of work being about 1.5 mi. from Wolcott, Kan.

Miss., McComb—Pike County Supervisors opens bids Nov. 5 for constructing double fences, 15 ft. apart along Louisiana-Mississippi line to turn back tick infested cattle; to be completed by Dec. 15.

Miss., Tylertown—Bd. of Supervisors of Walthall County opens bids Nov. 4 for constructing double line fence, with 4 strands each, along entire southern boundary of Walthall County, approx. 25 mi. with cattle guards at road intersections.

N. C., Brevard—Cherryfield Co., C. B. Mott, Box 1217, Asheville, developing 500-acre tract; construct fish hatcheries, etc.; H. L. Parker, Engr., Asheville. (See Miscellaneous Enterprises, 10-17.)

Tenn., Memphis—Ch. of Engrs., U. S. Army, Washington, D. C., approved constructing 60,000 cu. yd. levee work, Lower St. Francis Levee Dist.; U. S. Engr. Office, McCall Bldg., soon call for bids.

Tex., Abilene—Texas Mill & Elevator Co. increasing capital, \$75,000 to \$150,000.

Tex., Austin—State Game Comm., A. E. Wood, Chmn., considering Lions-Champion tract on Bull Creek, 5 mi. west of here for fish hatchery; est. cost, including site, \$300,000 to \$500,000.

Tex., Corpus Christi—Navigation and Canal Comms. of Nueces County Navigation Dist. No. 1, Gugenheim and Cohn Bldg., let contract to J. Dupuy, San Antonio, for docks at Port of Corpus Christi, at \$208,865; est. total cost of entire project, including docks, railroad trackage and track dumps, \$250,160; Robert J. Cummins, Conslt. Engr., Nixon Bldg., Corpus Christi, and Bankers Mortgage Bldg., Houston. 9-26

Tex., Harlingen—City plans \$500,000 to \$1,000,000 bond issue for improvements, including swimming pool. See Financial News Columns.

Tex., Houston—Biltmore Conservation Corp., Edwin Carewe, Pres., Los Angeles, Calif., made proposal to city to erect \$225,000 garbage conservation plant.

Tex., La Grange—See Drainage, Dredging and Irrigation.

Tex., Port Arthur—City soon have plans completed for seawall; City Comm. tentatively set Nov. 26 as day for voting on \$2,000,000 bonds for seawall; \$300,000 for pleasure piers; J. B. Converse Co., Conslt. Engr. on seawall. 8-29

Texas—U. S. Engr. Office, Postoffice and Tremont St., Galveston, let contract to Joe E. Ballinger, San Benito, at 11.25 cents per cu. yd. for 566,600 cu. yd. material in constructing levee 52,840 ft. long. 9-26

Va., Harrisonburg—City erect \$25,000 to \$30,000 incinerator.

Miscellaneous Enterprises

Ala., Huntsville—Electric Bell Range Co. let contract to G. A. Rogers for \$25,000 enameling plant; 52x144 ft., 2 story.

Ark., Fort Smith—Fire Fighting—City votes Dec. 2 on \$100,000 bond issue for equipment for Fire Dept.

Ark., Helena—American Baking Co., care C. Traicoff, Mgr., Marianna Baking Co., Marianna, erect bakery; 54x100 ft., 1 story; owner builds by day work; owner, Archt.

Ark., Manila—Manila Sentinel erecting plant; 25x70 ft.; to be complete Nov. 1.

Fla., Crestview—Okaloosa News-Journal Co., Inc., capital \$10,000, chartered; R. H. Hughes, W. D. Douglas, newspaper.

Fla., DeLand—Gore Publishing Co., R. H. Gore, Pres., 209 S. LaSalle St., Chicago, Ill., acquired News Publishing Co., Clayton C. Codrington, Pres., publisher of DeLand News.

Fla., Jacksonville—Herring Beverage Co., Inc., chartered; J. E. Craig, 2607 Oak St.

Fla., Jacksonville—Foremost Dairy Products Co., Jacksonville, reported, negotiating for merger with Southwest Dairy Products Co., S. S. Summerfield, V.-Pres., Dallas, Tex.

Fla., Jacksonville—Tung Oil—Tung-Shu Development Co., 1606 Barnett Natl. Bank Bldg., formed to develop, cultivate and care for tung plantations for non-resident owners; J. L. Gray, Pres.; M. B. Gray, Sec.

Fla., Miami—Miami Exposition & Amusement Park, Inc., L. D. Llewellyn, Pres., 620-622 Seybold Bldg., has grounds leveled and now start constructing amusement park, Coral Way, costing approx. \$1,000,000 including site, etc.; to be inclosed with ornate stucco fence, 16 ft. high with panels for advertising display; grounds to be landscaped with palms, shrubs, flowers, etc.; grand entrance of modified Mediterranean type, designed by George L. Pfeiffer, Archt.; John A. Miller, of John A. Miller Co., 8100 E. Jefferson St., Detroit, Mich., designing architect in charge; to be opened Dec. 1.

Fla., Miami—Interstate Marble & Tile Co. incorporated; W. G. Earnest, R. O. Kloeber; marble and tile construction.

Fla., Miami—Miami Mattress Mfg. Co., 2115 N. W. Fourth Court, incorporated; J. M. Ross.

Fla., Mount Dora—Eternal Paint & Lacquer Co., C. E. Perkins, installing mixers, grinders, stills and kettles in plant, Donnelly and Charles St., to manufacture boat bottom non-fouling paints for wooden or steel craft, lacquer for painting houses, paint for marking traffic lines, etc. 8-22

Fla., Tampa—Tampa Authors Music Publishing Association, Inc., chartered; W. E. Jennings, 310 West St.

Fla., Tarpon Springs—M. H. Swafford and W. E. Hagans erect 2 retort plants to produce naval stores products.

Fla., Winter Garden—Griffin Construction Co. incorporated; J. A. Griffin, H. H. Butler.

Ga., Gainesville—Austin F. Dean and John Crouch acquired Gainesville Eagle, weekly newspaper.

Ky., Louisa—Big Sandy News-Recorder formed by merger of Big Sandy News and Lawrence County Recorder; W. D. Grote to be editor.

Ky., Louisville—Fire Fighting—City Buyer, George T. Cross ordered by Bd. of Public Safety to ask bids on sufficient cable to lay connection from Fifth and Breckinridge St. to Southern Parkway at Ashland Ave., est. cost \$20,000; also on 40 fire alarm telegraph boxes and 2 electric registering machines for No. 23 Engine Co., Fifth St. and Ashland Ave.

Ky., Pikeville—Nehi Bottling Co., capital \$20,000, incorporated; W. L. Walker, M. C. Justice.

Ky., Russell—Bd. of Council opens bids Oct. 28 for fire truck, 1000 ft. fire hose and other equipment.

La., Lake Charles—Green Acres, Inc., W. B. Logan, Pres., expend \$50,000 to establish poultry plant, etc.; develop 153 acres land, Calcasieu Parish; I. C. Carter, Archt., Kaufman Bldg.

La., New Orleans—Mississippi Valley Barge Line Co., Phil G. Stafford, Traffic Representative, 1038 Planters Bldg., St. Louis, Mo., recently formed, authorized by Interstate Commerce Comm. to operate on Ohio and Mississippi Rivers between Cincinnati, Ohio, and New Orleans; contracts let for 5 towboats, 1000 h.p. and 50 barges, 300 ton capacity each; J. Wade Childress, Pres.; Carl J. Baer, V.-Pres. 10-3

La., Ruston—Raymond Meeks, Farmer-ville; G. E. Lindsey, Bernice; Geo. P. Mackay, Hodge; Lamar Taylor, Arcadia; Henry Henton, B. H. Rainwater and C. R. Heard, Ruston, appointed as committee to secure whole milk market for section; plan erecting plant using Gray-Jensen process.

Md., Buckeystown—C. E. Schildknecht, Frederick, acquired O. J. Keller Lime Co. plant, including 140 acres, dwelling and kiln equipment.

Md., Baltimore—Hendler Creamery Co., Inc., L. Manuel Hendler, Pres., 1100 E. Baltimore St., let contract to Avon Construction Co., 216 E. Lexington St., for storage warehouse and manufacturing plant, 1131 E. Fayette St.; 1 story brick; Lucius R. White, Archt., Hearst Tower Bldg. 1-11

Md., Baltimore—Kraft-Phenix Cheese Corp., 402 Rush St., Chicago, Ill., reported, acquiring Gelfand Mfg. Co., Inc., Haven, north of Monument St., Baltimore; Southern Dair-

ies, Inc., 60 M St., N. E., Washington, D. C.; Kennard Mayonnaise Co., Nashville, Tenn., Atlanta, Ga., and Dallas, Tex.

Md., Baltimore—Sunshine Cleaners & Dyers, Inc., 1818 N. Charles St., chartered; Jacob Ballasohn.

Md., Salisbury—Baltimore Paper Box Co., B. H. Catzen, V.-Pres., Key Highway, Baltimore, leased building, Railroad Ave. and E. William St., for plant to manufacture set-up paper boxes and for storing and distributing folding and corrugated shipping containers; plan installing cutting room with production of 15,000 to 20,000 boxes daily; making and finishing departments to handle 4000 to 10,000 boxes daily.

Miss., Aberdeen—H. E. Holmes let contract to Dorsey Smith, Tupelo, for Ne-Hi bottling plant, Franklin and Canal Sts.; 36x75 ft., with 13-in. brick wall, conc. floor.

Miss., McComb—McComb Creamery & Ice Co. let contract to A. R. Netterville, McComb, for plant; brick, modern design; Anker S. Hensen, Archt., Shrine Bldg., Memphis, Tenn.

Mo., Kansas City—Builders Building Co. incorporated; M. Berg, 3751 S. Jefferson St.

Mo., Kansas City—Carter-Waters Corp., 2049 Main St., distributor of road and building materials, erect plant, W. Pennway bet. Terminal tracks and 25th St.; owner builds, work start in November; 4-story office and warehouse, 100 x 70 ft., with provision for extension; providing for expansion; install series of storage tanks for hot asphalt and road oils; Archer & Gloyd, Archts., Pioneer Bldg.

Mo., Kirksville—Karlbonna Co., capital \$50,000, incorporated; E. P. Stamper, Kirksville; Marvin B. Old, Columbia; manufacture poultry and stock remedies, etc.

Mo., Poplar Bluff—American Republic Newspaper Co., J. H. Wolpers, Pres., plans printing plant; 2 story brick; select archt. in Spring, 1930.

Mo., St. Louis—Radium Salve Corp. of America incorporated; Ley R. Rexford, 4757 Westminster Pl.

Mo., St. Louis—Overhead Door Co. of Missouri, 1031 S. Big Bend Rd., Richmond Heights, capital \$50,000, incorporated; J. C. Radcliffe, Jr.; manufacture doors, etc.

Mo., St. Louis—Tiffany Aluminum Products Co., Lee Rosenberg, Pres., 3219 Locust St., acquired building, Branch and Buchanan Sts., for plant and office; expending \$20,000 for improvements and additional equipment.

Mo., St. Louis—A. C. Waldvogel, Inc., capital \$10,000, chartered; A. C. Waldvogel, 1049 Francis Pl., St. Louis County.

Mo., St. Louis—Fredman Engineering Co. incorporated; Louis Fredman, St. Louis; Karl P. Spencer, Calyton.

Mo., Washington—Missouri Meerschbaum Co., capital \$100,000, incorporated; U. L. Weirick, Tiffin, Ohio; A. H. Breckenkamp, Washington; manufacture and mend smoking pipes, etc.

N. C., Asheboro—Asheboro Dry Cleaning Co., capital \$15,000, incorporated; G. S. Brown, L. A. Bonkemeyer.

N. C., Burlington—City Laundry of Burlington, capital \$100,000, incorporated; G. E. Robbins, F. E. Allred.

N. C., Durham—American Tobacco Co., 111 Fifth Ave., New York, reported, expending \$500,000 erecting 5 warehouses in addition to 11 under construction. 7-25

N. C., Mount Airy—Mount Airy Overall Co., manufacturer of overalls and jumpers, increasing production 25 per cent.

N. C., Thomasville—Byars Mfg. Co., capital \$100,000, incorporated; George W. Byars, L. C. Ripple; establish plant to manufacture window and window screen invented by G. W. Byars.

N. C., Winston-Salem—Taylor-Long Co., capital \$100,000, incorporated; Ralph Long, 915 W. Fourth St.; manufacture and sell syrups, flavorings, bottles, etc.

Okla., Muskogee—R. D. Morgan plans \$15,000 creamery, W. Okmulgee Ave. and 43rd St.

S. C., Charlotte—Southern Asbestos Co., W. 11th St., Charlotte, deposited approx. 90% under plan for merger with Thermoid Co., R. J. Stokes, Pres., Trenton, N. J.; board of directors of both companies declared plan operative. 9-19

Tenn., Johnson City—Shale Products Co., reported, will be holding company for firms manufacturing building materials in East Tennessee; Sam R. Sells interested.

Tenn., Knoxville—Following, reported, plan merging: Avondale Farm Creamery, Hall X Rd., Lily of the Valley Creamery, 1414 Sixth

Ave., Elmor Milk Co., 107 Luttrell St., and Tennessee Valley Creamery Co., 200 Deaderick Ave.; J. C. Penney, Chmn. of Bd., Foremost Dairy Products, Inc., Jacksonville, Fla., reported, interested.

Tenn., Memphis—Carlova, Inc., A. Alexander, Sec., Binghamton, N. Y., manufacturer of perfumes and cosmetics, establish plant to occupy 30,000 sq. ft. floor space, 62 W. Iowa Ave., employing 100; begin operations as soon as machinery is installed; initially produce 35,000 lb. daily.

Tenn., Memphis—J. A. Crisler, 1291 Union Ave., plans rebuilding dairy buildings, Dunreath Farm, recently burned.

Tex., Austin—Von Boeckman-Jones Co., J. D. Jones, Sec. and Treas., 811 Congress Ave., printers, acquired Knights of Columbus hall, E. Ninth St.; make numerous extensions to plant.

Tex., Dallas—Construction—American and Venetian Terrazzo Co. incorporated; John Colfry, 412 St. Paul St.

Tex., Denison—Kraft Phenix Cheese Corp., 400 Rush St., Chicago, Ill., expend approx. \$100,000 enlarging cheese plant; have daily capacity of 100,000 lb. butter fat; erect egg-breaking plant and mayonnaise plant; plans being prepared; soon call for bids.

Tex., El Paso—Tinallium Chemical Products, B. B. Rogers, Bldrs., Exch. Bldg., purchased and now installing machinery to manufacture metal preservative. 9-12

Tex., Glen Rose—Glen Rose Famous Mineral Waters & Ice Co., capital \$10,000, incorporated; J. M. Russell, C. A. Bridges.

Tex., Harlingen—City plans \$500,000 to \$1,000,000 bond issue for improvements, including abattoir. See Financial News Columns.

Tex., Houston—Crescent Macaroni Mfg. Co., Inc., T. S. Tusa, Pres., Esperson Bldg., being formed to erect macaroni plant, Polk and Palmer Sts.; 2 story; install modern equipment to produce 125 bbl. daily, employing 40.

Tex., Navasota—Lilly Creamery Co., capital \$10,000, incorporated; J. C. Webb, C. A. Edge.

Tex., Orange—Southwest Dairy Products Co., Santa Fe Bldg., Dallas, acquired plant of Star Ice Cream Co.; make extensive additions and improvements.

Tex., Ralls—Crosby County Creamery Co. formed to erect creamery; J. Edd McLaughlin, Pres.; W. F. Craddock, Sec.

Tex., San Antonio—Mitchell Construction Co., Inc., capital \$20,000, chartered; C. C. Mitchell, 634 Avant St.

Tex., Sherman—R. A. Chapman, Jr., let contract to Max Gibbs & Sons for \$13,270 building, S. Crockett and W. Jones St.; 1 story, mill construction, brick, conc., 65x140 ft., conc. floors, steel sash, rein. glass, equipped with automatic sprinkler system; to be occupied by Day Mfg. Co., manufacturer of paper boxes; started construction, to be complete by Dec. 15; Clyce & Rolfe, Archts.

Tex., Temple—I. T. Ennis let contract to Love Construction Co. for cleaning and pressing plant, Main St. and Ave. G.

Tex., Temple—Ward C. Mayborn, Warwick Hotel, Houston, and associates acquired Temple Telegram, published by Telegram Publishing Co., E. K. Williams, Pres.

Tex., Vega—Vega Sentinel, R. B. Boyle, Editor, let contract to Panhandle Lumber Co. for erecting modern newspaper building; installing electric motors on all presses and linotype, and large cylinder press.

Tex., Waco—City Water Bd. granted rights to Waco Amusement Co. for concessions at Lake Waco, including right to operate all public swimming beaches and pools in lake or around shore, operate boats, etc.; construct sewerage system to guard lake from pollution; expend \$100,000 developing amusement center.

Tex., Wichita Falls—Western Office Supply Co. merging with Railey Printing Co., J. E. H. Railey, Pres. and Gen. Mgr., 610-12 Ninth St.

Tex., Wichita Falls—Southwest Dairy Products Co., Santa Fe Bldg., Dallas, acquired local plant of Kraft Cheese Co., 400 Rush St., Chicago, Ill., R. E. Freeman, Local Mgr.; install machinery to convert to powdered and condensed milk plant.

Va., Louisa—Louisa Mfg. Co., Inc., chartered; T. L. Woolfolk, Joseph L. Wills; manufacture men's, women's and children's wearing apparel.

W. Va., Buckhannon—Woodyard Publications, Inc., Edward D. Woodyard, Pres., Spencer, installing new press room in recent-

ly acquired newspaper plant here; new duplex press and linotype at Keyser and other minor materials at other plants. (See Spencer, 10-17.)

W. Va., Charleston—County Court authorized transfer of Marmet ferry franchise from Blanche Oliver to John Casey.

W. Va., Huntington—Powers' Laundry, Ira J. Powers, Prop., 216 13th St., acquired building, Third Ave., below Sixth St.; 60x160 ft.; remodel and erect second story addition after Jan. 1; install machinery.

W. Va., Keyser—See Buckhannon.

Motor Bus Lines and Terminals

Fla., Jacksonville—Cary Cab Co., Inc., chartered; W. G. Cary, Panama Pk.

Kentucky—Commr. of Motor Transportation granted following interstate bus permits: Sparks Bros. Bus Co., Paintsville, to operate, Pikeville, Ky., to Williamson, W. Va., and Pikeville, Ky., to Huntington, W. Va.; Blue Streak Interstate Bus Co., Ashland, Prestonsburg, Ky., to Williamson, W. Va.

La., Ruston—Raymond Meeks, Farmerville, applied to Louisiana Public Service Comm. for permission to operate bus service, Ruston to Marion via Farmerville.

La., Bogalusa—City let 10-yr. franchise Nov. 12 for city wide bus line.

Mo., Vienna—Fennessey's Bus Service incorporated; Joseph T. Fennessey.

Tenn., Chattanooga—Colonial Stages, Inc., Cincinnati, Ohio, plans direct bus route, Cincinnati via Lexington and Knoxville to Chattanooga.

Tex., Fort Worth—Northern Texas Traction Co., A. F. Townsend, Mgr., will order 10 40-passenger buses to serve S. Main-Magnolia-Hamphill bus route costing \$12,000 each.

Tex., San Antonio—Yellow Cab Co., Inc., 424 Dolorosa St., increasing capital stock, \$114,000 to \$139,000.

W. Va., Centerville—O. E. Coffman, Wallace, authorized by State Road Comm. to extend Sistersville-Tyler City line to Centerville and to operate between Center Point and Tyler County line.

W. Va., Huntington—Conley Bros. Bus Co., Ashland, acquired Bald Eagle Bus Line, operating Huntington to Louisa, Ky.; plans extending line to Pineville, Ky.

Motor Cars, Garages, Filling Stations

Ala., Anniston—Evans Motor Co., capital \$15,000, incorporated; Roy Evans, E. D. King.

Ala., Gadsden—Wofford Oil Co., 3331 Ninth Ave., N., Birmingham, erect filling station, Mitchell Ave. and Nichols St.; brick.

Ark., Camden—Firestone Tire & Rubber Co., Akron, Ohio, erect \$14,000 filling station, S. Adams and Jackson St.; 1 story, comp. roof, conc. floor and foundation, struc. steel and iron, plate glass; owner probably build; private plans.

Ark., North Little Rock, Little Rock—Chevrolet Motor Co., Detroit, Mich., erect parts depot here, originally proposed in Little Rock. 8-8

Ark., Russellville—Russellville Motor Co. increased capital, \$50,000 to \$100,000.

D. C., Washington—Gulf Refining Co., Rosslyn, Va., has permit for filling stations, 1523 15th St., N. W., and 50 Florida Ave., N. E.; \$8000 each.

Fla., Jacksonville—Pan American Petroleum Transport Co., 120 Broadway, New York, erect service station, First St., N., and Main St., to be complete about Nov. 15.

Ga., Atlanta—Standard Oil Co., Marietta and Means St., let contract to Griffin Construction Co., 452 Spring St., N. W., for garage and filling station, 1177 Fair St., S. E.; 1 story, 65x40 ft. and 31x12 ft.; private plans.

Ga., Thomaston—B. F. Goodrich Rubber Co., Martha Mills Div., have plans complete about Oct. 26 for \$12,000 service station for community center; conc. area ways and foundations, brick, comp. roof; Robert & Co., Engr., Bona Allen Bldg., Atlanta.

Ky., Lexington—Geary-Gay Motor Car Co. has permit for \$18,000 garage, Grant St., north of Main; 2 story, brick, steel, 7250 sq. ft. floor space; J. Graham Miller, Archt., 769 W. Main St.

Ky., Louisville—Charles A. Spieth, 2337 Alta Ave., has permit for \$12,000 garage addition, 903-910 S. Seventh St.

La., Bogalusa—T. A. Magee remodeling Mullins' Bldg., Alabama and Griffith St., for filling station.

La., Bossier City—Texas Oil Co., having plans completed for filling station, Cain and Arcadia St.; 22x49 ft.; W. D. Weeks, Archt., Ardis Bldg., Shreveport.

Md., Baltimore—Guilford Realty Co., 3330 St. Paul St., let contract to Cogswell-Koether Co., 406 Park Ave., for altering garage, 27 S. Charles St.; cost \$10,000 to \$15,000; Palmer & Landin, Archt., 513 N. Charles St. 8-15

Md., Baltimore—Thomas Mullan, 3945 Greenmount Ave., erect \$15,000 garage, 2213 Reisterstown Rd.; 50x150 ft.; owner builds; Kubitz & Koenig, Engr., Emerson Tower. 10-10

Md., Baltimore—Standard Oil Co. of New Jersey, St. Paul and Franklin St., preparing plans for filling station, Aisquith St. and North Ave.; razing present building; owner builds.

Miss., Clarksdale—Sam P. Hearst Estate let contract to Ray Strode, Clarksdale, for \$12000 garage block L Issaquena St.; 1 story 50x140 ft. rein. conc., brick.

Mo., Kansas City—Van Tire & Service Co., 1923 McGee Traffic Way, capital \$25,000, incorporated; Wm. Van Mothen, 3929 Forest St.

Mo., Marshall—Marshall Auto Service, Inc., capital \$10,000, chartered; L. A. Johnson, 306 Gladstone St., Kansas City; E. J. Whitehurst, Marshall.

Mo., St. Louis—Harley-Davidson Motor Cycle Co., capital \$10,000, incorporated; Frank Maglietta, 2610 Washington Ave.; manufacture motorcycles, etc.

Mo., St. Louis—Shell Petroleum Corp., T. F. Lydon, V-Pres., care Shell Eastern Petroleum Products Corp., 141 Milk St. Boston, Mass., Automobile Gasoline Co., including 10 service stations, 2 bulk plants and equipment.

Mo., St. Louis—White Baking Co., R. L. White, Pres., 3991 Papin St., erecting \$25,000 garage addition; 100x69 ft.

N. C., Burlington—Victor Motors, Inc., capital \$100,000, chartered; C. L. Howard, Greensboro; Coy Cobb, Burlington.

N. C., Charlotte—Keeley Grice Corp. newly organized, acquired Bryne Tire & Supply Co., Seventh and College St.; leased site, McDowell and Fourth St., for \$25,000 service station.

N. C., Raleigh—Pike Cadillac Corp., capital \$100,000, incorporated; H. A. Pike, Goldsboro; J. W. Pitts, Raleigh.

N. C., Randleman—Randleman Motor Co., capital \$50,000, incorporated; R. L. Wilson, J. M. Ellington.

N. C., Salisbury—M. & O. Motor Co., Inc., capital \$25,000, chartered; R. Lee Mahaley, W. S. Overton, Jr.

N. C., Sanford—T. B. Upchurch acquired Edwards Railway Motor Car Co.

N. C., Winston-Salem—S. C. Ogburn, 665 Chestnut St., and J. F. Smithdeal have permit for filling station, Reynolda Rd. and Northwest Blvd.; brick, 56x67 ft., conc. foundation.

S. C., Greenville—Greenville Nash Co., capital \$10,000, incorporated; J. L. Love, Masonic Lenyle Bldg.

Tenn., Nashville—Cumberland Lodge No. S. A. F. and A. M., let contract to Gould Contracting Co., Independent Bldg., for \$35,000 garage, Seventh and McGavock St.; 1 story, fireproof, 60x150 ft.; started construction, to be completed Dec. 15; Hart, Freeland & Roberts, Archt., Independent Life Bldg.

Tenn., Nashville—Second National Garage, Inc., R. R. Ogilvie, American T. Bldg., plans letting contract this week for \$600,000 storage garage, Seventh and Polk Ave.; Hart, Freeland & Roberts, Archts., Independent Bldg. 10-17

Tex., Cuero—C. F. Combs, Ganado, negotiating to acquire Cook & Day Motor Co.; to be known as Cuero Motor Co.

Tex., Dallas—Southwest Automobile Laundries, Inc., capital \$10,000, chartered; E. L. Haskins, 306 S. Willomet St.

Tex., Fort Worth—Firestone Tire & Rubber Co., Akron, Ohio has plans in progress for \$50,000 super service station, W. Seventh and Henderson St.; brick, steel frame, 1½ story, 90x165 ft., comp. roof, conc. floors; Elmer G. Withers, Archt., Holmes Bldg.

Tex., Houston—Post Office Dept., W. S. Watkins, Postal Inspector, add 30 new mail trucks to delivery equipment of Houston post office within next 10 or 15 days; establish garage and service department; erect building or lease downtown structure.

Tex., Houston—Humble Oil & Refining Co., Humble Bldg., let contract to Howell Didd for filling stations, 119 W. 19th St., brick, stucco; 202 White Oak Dr., stucco; completion in 90 and 60 days respectively; \$9000 each.

W. Va., Charleston—Standard Oil Co. of New Jersey has permit for alterations to filling station, Washington and Truslow St., \$5000; new service station, Charleston St. near Patrick, \$10,000.

W. Va., Glenville—N. E. Rymer, South Glenville, erect filling station, Main and Lewis St.; A. N. West, Archt.

W. Va., Fayetteville—Warden Motor Co., capital \$25,000, incorporated; J. W. Warden, Long Branch; K. K. Warden, Fayetteville.

W. Va., Welch—Strike-Nichols, Inc., capital \$25,000, chartered; John Strike, E. J. Nichols; automobiles and accessories.

Railways

D. C., Washington—Southern Ry. Co., C. R. Craig, Gen. Pur. Agt., ordered 1500 55-ton, all-steel hopper cars from Pressed Steel Car Co., Farmers Bank Bldg., Pittsburgh, Pa., to be built at McKees Rocks (Pa.) plant; ordered 3500 40-ton automobile box cars from American Car and Foundry Co., 33 Church St., New York, to be built at St. Louis (Mo.) and Madison (Ill.) plants.

Kentucky—Chicago, Indianapolis & Louisville Ry. Co., H. R. Kurrie, Pres., Chicago Ill., authorized by Interstate Commerce Comm. to assume obligation for \$520,000 equipment trust certificates to be issued by Harris Trust & Savings Bank, Chicago, Ill., and used for purchasing 10 Mikado type locomotives.

Ky., Louisville—Louisville & Nashville R. Co., W. R. Cole, Pres., let contract to Tennessee Coal, Iron & Railroad Co., Birmingham, Ala., for 62,000 tons rail, to be rolled at Ensley (Ala.) plant.

Md., Annapolis—City Council adopted resolution requesting Washington, Baltimore and Annapolis Electric R. R. Co., H. A. Wagner, Pres., 100 S. Howard St., Baltimore, to lay tracks around Church Circle into College Ave. from West St.

Md., Baltimore—Baltimore & Ohio R. R., Daniel Willard, Pres., let contract to Bethlehem Steel Corp., Bethlehem, Pa., for 1000 gondolas and to Standard Steel Car Co. for 1600 box car bodies.

Mo., Joplin—Frank Kell, City Natl. Bank Bldg., Wichita Falls, Tex., acquired Missouri & Northern Arkansas Ry. Co., W. Stephenson, Receiver, Harrison, Ark., right-of-way, Joplin, Mo., to Helena, Ark.

Mo., Polo—Chicago, Rock Island & Pacific Ry. Co., W. H. Peterson, Ch. Engr., Chicago, Ill., and Chicago, Milwaukee, St. Paul & Pacific R. R. Co., C. F. Loweth, Ch. Engr., Chicago, Ill., reported, announced \$6,000,000 double tracking project, Polo to Birmingham, Clay County, Mo.; track to be laid jointly by the companies.

Oklahoma—See Texas.

Texas—Subsidiaries of Atchison, Topeka & Santa Fe Ry., G. W. Harris, Ch. Engr., Chicago, Ill., applied to Interstate Commerce Comm. for authority to construct following: Panhandle & Santa Fe Ry. Co., J. R. Hitchcock, V-Pres. and Gen. Mgr., Amarillo, line 96 mi., Amarillo, Potter County, to point in northern part of Dallam County, connecting with North Texas & Santa Fe, and 50 mi. line from Dumas, northeast to Spearman, Hansford County; Elkhart & Santa Fe, 39-mi. line, south line of Cimarron County, Okla., to northwest corner of same county, and 110-mi. line, Felt, Cimarron County, Okla., to Colmar, Colfax County, N. M.; Dodge City & Cimarron Valley, 33-mi. line, southern line of Baca County, Col., to Las Animas, Col. 10-16

Tex., Zapata—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, Mo., reported soon extend line Rlogrande to Zapata approx. 78 mi.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Tuscaloosa—Tuscaloosa County Bd. of Revenue, plans paving Birmingham-Tuscaloosa Highway to Jefferson County line; probably begin work early in Dec.; will sell bonds.

Ark., El Dorado—Bd. of Comms. Paving Improvement Dist. No. 32, C. J. Francis, Sec., receives bids Oct. 28 for plain conc. pavement on East Hillsboro St. in Dist.; 10,038 sq. yd. 7-in. 1-2-3½ conc.; 4,700 lin. ft. conc. curb, 10,038 sq. yd. grading, catch basins, storm sewer, etc.

Ark., Fort Smith—City plans expending \$100,000 to open South Seventh St., Garrison to Rogers Ave.; W. L. Winters, Engr. See Financial News Columns.

Fla., Fort Lauderdale—State Road Dept., Robert W. Bentley, Chmn., Tallahassee, receives bids first week in Dec. for conc. road, from North of Fort Lauderdale to Broward County line; B. M. Duncan, State Highway Engr.

Florida — State Road Dept., Robert W. Bentley, Chmn., Tallahassee, will hard surface 10 mi. Tamiami Trail in Collier County; plan hard surfacing Road No. 19, Marion County; B. M. Duncan, Ch. Highway Engr.

Fla., Titusville—Brevard County Comms. John B. Rodes, Commr. plan receiving bids soon for 2 roads: 1.23 mi. grading, paving, culverts, Road No. 5, Dist. No. 3, Malabar; grade and bridge Poultry Colony road, between Kissimmee highway and Lockmar.

Ga., Columbus—City, Henry B. Crawford, Mgr., plans paving Thirteenth St., Thirteenth Ave. to Eighteenth.

Ky., Grayson — State Highway Comm., Frankfort, receives bids Nov. 15 for 2 roads in Carter County: 4.2 mi. grade, drain Olive Hill-Soldiers road, from Lawton to corporate limit of Olive Hill; 5.5 mi. grade, drain Grayson-Carter City road from intersection with Pactolus road at Lindsey Chapel to point northeast of Iron Hill; J. S. Watkins, State Highway Engr.

Ky., High Bridge—State Highway Comm. Engrs., J. S. Watkins, State Highway Engr., Frankfort, making survey for proposed 8 mi. road from point on Kentucky River, near High Bridge, Jessamine County, via Buena Vista, connecting with U. S. Highway No. 27 below Bryantsville.

La., Columbia—Caldwell Parish Police Jury plans expending \$45,000 for roads in Road Dist. No. 1. See Financial News Columns.

La., Independence—City receives bids Nov. 6 for 17 blocks conc. paving; E. G. Freiler, Engr., Hammond, La.

La., Opelousas—City, John M. Prescott, Clk., receives bids Oct. 28 to pave with conc., Main St., Jefferson to Church.

Maryland—State Roads Comm., Baltimore, received low bids for 5 roads and bridge: Anne Arundel County—5.92 mi. gravel, Bartgis' Store on Defense Highway to Davidsonville, G. B. Mullins & Co., 1296 Upshur Rd., N. W., Washington, D. C., \$42,148; Baltimore City—9 mi. sheet asphalt, Gwynn Oak Ave., Baltimore city line to Liberty Heights Ave., Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., Baltimore, \$104,549; Charles County—2.01 mi. gravel, from State road near Faulkner, toward Pope's Creek, Pembroke & Gasparovic, Park Hall, Md., \$13,291; Prince Georges County—1.5 mi. penetration macad., Hunts Corner toward Gordon's Corner, Corson & Gruman Co., 33rd and K Sts., N. W., Washington, D. C., \$30,527; Montgomery County—51 mi. conc., Darnestown—Seneca road, end of Cont. M-99 to Seneca Creek, M. J. Grove Lime Co., Lime Kiln, \$15,830; 99 mi. conc., from Laytonsville road toward Goshen, M. J. Grove Lime Co., \$18,506; conc. slab bridge on Bradley Blvd., near B. & O. underpass, Southern Maryland Construction Co., 14 E. Lexington St., Baltimore; G. Clinton Uhl, Chmn. 10-10

Maryland—State Roads Comm., Baltimore, received low bids for 7 roads and 2 bridges: Anne Arundel County—3.04 mi. gravel, Mt. Zion toward Bayard, Frank Moreland, Greenock, Md., \$23,115; 2 mi. gravel, end of Cont. AA-33 toward Shadyside, Roberts Paving Co., Salisbury, \$24,961; Baltimore County—1.5 mi. conc., Black Rock road, Cooper's Corner on Falls road, toward Mt. Zion, H. T. Campbell Sons Co., Towson, \$60,883; Howard and Baltimore Counties—1.5 mi. combined conc. curb and gutter and conc. shoulders, Baltimore-Washington Blvd., between Laurel and Baltimore, T. A. Ward, 1824 N. Caroline St., Baltimore, \$17,040; Frederick County—1.3 mi. conc., Rocky Ridge road, end of Cont. F-100 to Monocacy River, L. R. Waeche & Son, Thurmont, \$38,944; Montgomery County—55 mi. macad. resurfacing, Wisconsin Ave., Bethesda, from Edgemoor lane to Bradley lane, Corson & Gruman Co., 33rd & K Sts., N. W., Washington, D. C., \$19,162; 1.12 mi. conc., Connecticut Ave., Woodbine Ave. toward Chevy Chase Lake; Leland St. connection, Maple Ave. to Cont. M-104; Leland St., Wisconsin

Ave. to Bradley Lane, McGuire & Rolfe, Inc., Electric Bldg., Richmond, Va., \$43,178; Bridges: Cecil County — substructure for bridge over P. B. & W. R. R., at Heisler's Bridge north of Charlestown, Forbes-Murphy Construction Co., 326 St. Paul St., Baltimore, \$6,852; Howard County—bridge on Frederick Pike, over Little Patuxent River, Elliott City to West Friendship, Poffinberger & Mause, Myersville, \$6,084; G. Clinton Uhl, Chmn.

Maryland—State Roads Comm., Baltimore, receives bids Oct. 29 for 2 roads: Anne Arundel County—1.5 mi. gravel, from Webb's Corner, Solomon's Island road, toward Fair Haven, Cont. AA-77; Baltimore City—58 mi. conc., East Dr. of Carnegie Ave. from Eastern Ave. to O'Donnell St. Cont. BC-85; G. Clinton Uhl, Chmn.

Md., Baltimore—City, Bd. of Awards, received low bid from Harry T. Campbell Sons Co., Towson, \$99,420, for 2½ mi. conc. roads as approaches to Prettyboy dam to be built in Baltimore County; From National Paving & Contracting Co., Western Maryland R. R. and Menlo Drive, \$47,786, to pave roadway of Hanover St. viaduct over tracks of Baltimore & Ohio and Western Maryland Railway, and to pave Russell St. Bridge over Gwynns Falls and Western Maryland Ry.; Hanover St. viaduct contract includes paving following approaches: Barney and Heath Sts., Hanover to Light; Patapsco, Barney to Heath, and Hanover, Heath to Wells; Nathan L. Smith, Highways Engr. 10-10

Md., Salisbury—Wicomico County Comms. considering improving 3 roads: Hard surface Catch Penny-Green Hill-White Haven road; hard surface road from Salisbury-Ocean City State road at Calvin Morris' corner to road on Delaware-Maryland Line road be Mt. Hermon via Hastings Mill; sand clay road between Mr. Carey's property and intersection of Line road with Pittsville-Delaware Line State road; H. M. Clark, Roads Engr.

Miss., Bay St. Louis—City Comms., Chas. Traub, Sr., Mayor, receive bids Nov. 4 for conc. sidewalks, curbs, gutters, grading, graveling and oiling roadway; rein. conc. culvert, excavation and embankment on Spanish Acres road, between S. Beach Blvd. and Third St. Lately noted bids Oct. 7. 9-26

Miss., Oxford—State Highway Dept., Jackson, receives bids Nov. 9 for 6.4 mi. state trunk road, between Oxford and Sardis, Lafayette County; 55,129 cu. yd. excavation, 17,545 lb. rein. steel, 104,817 ft. B. M. creosoted timber.

Miss., Winona—Montgomery County Highway Comms., Road Dist. No. 4, probably receive bids Nov. 4 to furnish gravel and build 2 roads: From Duck Hill toward Lodi or Fisher Crossing road; from Duck Hill to Carroll County line; 8250 tons washed or pit run gravel.

Missouri—State Highway Comm., Jefferson City, received low bids for 3 roads: Warren County—1.989 mi. 18-ft. gravel, Firmin T. O'Dell, Hannibal; Saline County—4.779 and 4.823 mi. 30-ft. graded earth, Nevada Construction Co., Nevada, Mo.; T. H. Cutler, State Highway Engr.

Mo., Anderson—City plans paving Main St. this month.

Mo., Joplin — City Council considering macad. surface on McKinley Ave., Fourth to Seventh St.

Mo., Lees Summit—City Council received low bid from J. H. Frew, Kansas City, \$29,351, for 6 blocks of paving; E. T. Archer & Co., New England Bldg., Kansas City Engrs. in charge.

Mo., St. Louis—City, Bd. of Public Service, plans expending about \$250,000 for ordinary asphalt paving on 12 streets; W. W. Horner, City Engr.

North Carolina—State Highway Comm., Raleigh, received low bids for 8 roads and 2 bridges, totaling \$781,744: Bladen County—15 mi. grading, Route 211, Powell Construction Co., Wachovia Bank Bldg., Winston-Salem, \$58,986; structures, J. F. Kitchin, St. Pauls, \$41,383; Columbus County—4.45 mi. grading, Powell Construction Co., \$15,217; structures, J. S. Bowers, Whiteville, \$8770; Person County—12.15 mi. grading, Nello Teer, Durham, \$80,730; structures, T. A. Loving & Co., Goldsboro, \$72,575; Caswell County—7.66 mi. grading, top soil, Nello Teer, \$61,875; structures, T. A. Loving & Co., \$36,864; Guilford County—widen 1.24 mi. hard surface road, 18 to 30 ft., out of High Point, R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, \$37,904; structures, Hobbs-Peabody Construction Co., \$10,636; Scotland County—4.62 mi. paving, R. G. Lassiter & Co., \$64,870; at \$8090 for structures; Davie and Rowan Counties—1.19 mi. paving, Powell Paving Co., \$25,984; Surry County—

15.28 mi. grading, Gus Ginn, Gastonia, \$88,854; structures, Kiker & Yount, Reidsville, \$103,702; Davidson County—overhead railroad crossing at Lexington, Hobbs-Peabody Construction Co., Builders Bldg., Charlotte, \$17,819; Wilkes County—bridge, E. A. Wood & Co., Andrews, \$47,469. 9-19

Okla., Miami—Ottawa County appropriated \$40,000 toward paving sections of Highway No. 66 south of Afton and east of Commerce.

Okla., Tulsa—City, Dan W. Patton, Mayor, plans 26-ft. pavement on East Nineteenth St. and Evanston Ave., in Dist. No. 989; K. R. Teis, City Engr.

South Carolina — State Highway Comm., Ben M. Sawyer, Ch. Highway Commr., Columbia, considering road from York County to Lancaster County, connecting with National Highway, leading to Wilmington; also bridge over Catawba River; C. H. Moorefield, Ch. Engr.

Tenn., Bristol—City, W. K. Carson, Treas., plans expending \$20,000 to widen Ninth St., State to Shelby. See Financial News Columns. 10-10

Tenn., Bristol—City, W. K. Carson, Treas., plans widening Edgement Ave.

Tenn., Knoxville — City Planning Comm. considering plans to extend Concord St. from Sutherland Ave. to Middlebrook pike; straighten Concord St., Third Creek to Sutherland Ave.; plans 80-ft. thoroughfare.

Tenn., Memphis—City Comm., Mayor Overton, plans paving Cella St.

Tenn., Nolensville — Williamson County Court, Franklin, and Dept. of Highways and Public Works, Nashville, plan opening and improving Nolensville road, from Davidson County line to Marshall County line.

Tex., Alice—Jim Wells Co., R. R. McMullen, Judge, plans 20.883 mi. grading, draining Highway No. 9, Live Oak County line to Alice; C. E. Wright, Res. Engr.

Tex., Austin—City, Adam R. Johnson, Mgr., plans extending paving on East First St., Llano to city limits; L. M. Chokla, Street Paving Engr.

Tex., Amarillo—City, W. N. Durham, Mgr., considering 37 blocks paving, including South Harrison, South Polk, South Tyler; plans receiving bids to pave Thirty-sixth Ave. to connect with Canyon Highway paving. 8-25

Tex., Beaumont—City, J. W. Anderson, Mgr., receives bids soon for 25 blocks street paving and sewer work, including Victoria, Easy, Milam St., Avenue B; R. C. Black, City Engr.

Tex., Beeville—Bee County plans expending \$10,000 to purchase right of way along State Highway No. 16 north and south through county, widening road 60 to 80 ft. See Financial News Columns. 8-25

Tex., Brownsville—Cameron County, Oscar C. Dancy, Judge, considering receiving bids in Dec. for road building.

Tex., Bryan—Brazos County Comms., A. S. McSwain, County Judge, probably expend \$16,000 to improve Bryan-Harvey road, from Ferguson crossing on Navasota River to Bryan. 10-10

Tex., Centerville—Leon County, W. D. Lacey, Judge, plans 2 roads: 11.861 mi. rein. conc. Highway No. 32, Madison County line to Centerville; 1.84 mi. rein. conc. Highway No. 32, intersection of Highway No. 45 to Freestone County line; cost about \$36,000; Nagle-Witt & Rollins, Allen Bldg., Dallas.

Tex., Childress—Childress County, W. B. Howard, Judge, plans 9.204 mi. grading, draining Highway No. 4, from Childress to Red River; S. D. Bacon, Res. Engr.

Tex., Clarendon—State Highway Dept., Austin, considering earthwork and drainage structures on Highway No. 5, through Donley County, from Hall County line to Armstrong County line.

Tex., Corpus Christi—Nueces County Comms., Court, Roy D. Clift, Clk., plans expending \$2,500,000 for 38 roads, including 15.20 mi. Corpus Christi-Callallen Highway; 14.35 mi. Chapman Ranch Highway; 11.50 mi. Old Brownsville road. See Financial News Columns. 10-3

Tex., Dallas—Dallas County Comms. Court, Charles E. Gross, Auditor, receive bids Nov. 14 to grade and drain Unit No. 1 of Outer Blvd. No. 4; Rollins & Clinger, Dist. Engrs.

Tex., Dallas—Dallas County, Charles E. Gross, Auditor, receives bids Nov. 14 for additional grading on Buckner Blvd., Units 1 and 2; Rollins & Clinger, Dist. Engr.

Tex., Dallas—Dallas County, Charles E. Gross, County Auditor, preparing plans for 1½ mi. grading, draining proposed Fort

Worth-McKinney Highway, State Highway No. 121, in Dallas County.

Tex., Edna—City plans paving several blocks on Main St.

Tex., El Paso—City Council plans widening Sheldon, Oregon and Mills Sts.; H. G. Stacey, City Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans paving Berry St., Eighth Ave. to Edgewale Road; D. L. Lewis, City Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans expending \$102,895 to repave South Main St., Rio Grande Ave. to Morphy St.; D. L. Lewis, City Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., preparing plans to build street to connect South Main St. with Bryan at Morningside Dr. and for underpass of M.-K.-T. R. R. on this street; D. L. Lewis, City Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans paving East Powell St., Evans Ave. to Epes St.; D. K. Lewis, City Engr.

Tex., Hallettsville—Lavaca County, Aug. W. Janszen, Judge, plans 8.785 mi. 5-in. comp. gravel and 3-in. crusher run broken stone course with triple bit. surface treatment, Highway 109, Yoakum to Hochheim; W. H. Koether, Res. Engr.

Tex., Harlingen—City plans additional street paving. See Financial News Columns.

Tex., Houston—Harris County Comms., R. H. Spencer, Commr., considering expending over \$400,000 for highways in Southern Harris County: 20-ft. wide, conc., Alameda Highway, State Highway No. 19, from Houston through Angleton, Freeport and West Columbia to Houston; underpass under right angle grade crossing of branch of Galveston, Harrisburg and San Antonio R. R.; 12-in. macad. base, asphalt top, from Rogers Corner through Alief, Howellville to Clodine; Chas. R. Haile, County Engr.

Tex., Huntsville—Walker County, P. H. Singletary, Judge, plans 13.758 mi. grading, draining Highway No. 45, Huntsville to San Jacinto line; D. K. Caldwell, Res. Engr.

Tex., Kingsville—Kleberg County plans 20-ft. conc. highway west of Kingsville to Jim Wells County line. See Financial News Columns.

Tex., Longview—City Council plans expending \$70,000 for street improvement. See Financial News Columns.

Tex., Lufkin—Angelina County Comms., engaged Raymond Abney, Engr. to make survey of road from Lufkin to San Augustine County line; work on road to start on completion of survey.

Tex., Laredo—Webb County Comms., J. S. Penn, County Judge, considering highway from Cactus to Catarina.

Tex., Palestine—City plans widening Avenue A 18 ft.; will let contract soon for paving.

Tex., Palestine—Anderson County, Chas. Kendall, County Engr., making resurvey for road between Elkhart and Tucker; widen road; eliminate double S curve; improve road at Cedar Creek.

Tex., Port Arthur—City Comm., J. W. O'Neal, Mayor, plans expending \$575,000 for streets and bridges. See Financial News Columns.

Tex., Roby—Fisher County plans 1.332 mi. grading, draining Highway No. 83, Roby east to Sta. 70 plus 35.5; estimated cost \$20,690; J. W. Puckett, Res. Engr., Stamford.

Tex., San Antonio—Bexar County, Perry S. Robertson, County Judge, will surface treat with 1½-in. natural rock asphalt, streets in Woodlawn Hills.

Tex., San Antonio—City, Fred Fries, Clk., plans widening Cincinnati Ave., Elmendorf to Baneroff Ave.; I. Ewig, City Engr.

Tex., Sherman—State Highway Comm., Austin, probably let contract early in 1930 to conc. Highway No. 10 from Whitesboro, Grayson County, to Denton County line; Gibb Gilchrist, State Highway Engr.

Virginia—State Highway Comm., Richmond, received low bids for 6 roads, totaling \$300,000: Warwick County—4 mi. conc., Route 39, from Lee Hall, G. Y. Carpenter, Chester, \$108,087; Prince George County—6.7 mi. gravel, Route 407, from Hopewell, Southeastern Construction Co., Petersburg, \$13,050; Brunswick and Mecklenburg Counties—2.9 mi. soil, Route 12, from point west of Lawrenceville, W. H. Clarke & Co., Charlottesville, \$10,144; Clarke and Frederick Counties—1¼ mi. macad., Route 37, point west of Berryville, Echols Bros., Inc., Anderson, W. Va., \$37,373; Rockbridge County—7.4 mi. grading, draining, Route 14, from Buena Vista, J. J. Battershill & Sons, Virginia,

\$78,862; Bedford County—7 mi. macad., Route 10, east of Big Otter River to point west, A. N. Campbell, Lynchburg, \$9,474; Roanoke County—2.69 mi. bit. macad., Route 10, from city limits of Roanoke, Pendleton Construction Co., Wythesville, \$56,486; C. S. Mullen, Ch. Engr. 10-3, 10-10

Va., Clintwood—Dickenson County Bd. of Supvs. plans ¾ mi. road from Bart Lick, via old Splashdam, to county road down mountain.

Va., Norfolk—City, I. Walke Truxtun, Mgr., plans paving Twenty-seventh St., Killam to Colley Ave.

Va., Stuart—State Highway Dept., Richmond, allocated \$46,000 toward completing Route No. 12, Patrick County.

Va., Virginia Beach—Town, Charles E. Barco, Mayor, plans expending \$50,000 to widen Atlantic Ave., open and hard-surface Arctic Ave. from Eleventh St. to Sea Pines; Donald Calcott, City Engr. See Financial News Columns.

Va., Prince George—Prince George County Bd. of Supvs. plans improving Jerusalem Plank road.

W. Va., Wheeling—Ohio County Comms., Dent A. Taylor, Clk., plan improving Twenty-ninth St., Chapline St. to Left Hand run, through Wheeling; plan covering Caldwell's Run to widen thoroughfare.

Contracts Awarded

Ark., Magnolia—City let contract to Hartman Clark Brothers Co., Peoria, Ill., \$24,077, to pave North Washington St., public square to city limits.

Fla., Cedar Key—Levy County Comms., Bronson, let contract to McLeod Construction Co., Williston, \$7,000, for 6,000 sq. yd. 8-in. base Ilmerock, surface treatment, slag top, on Main St. Cedar Key.

Georgia—State Highway Bd., East Point, let contracts totaling \$300,000 for 4 roads, 6 bridges and culverts: Brooks County—6.613 mi. conc., Quitman-Thomasville Highway, Hall & Bowen, Macon, \$134,340; Troup County—4.258 mi. conc., LaGrange to Chipley highway, J. B. McCrary Engineering Corp., Atlanta, \$87,890; Gwinnett County—1.988 mi. top soil and bridge, Stone Mountain-Monroe Highway near Snellville, J. W. Trammell, Lutherville, \$33,733; Houston County—.75 mi. lime rock surface, Perry-Macon Highway, Campbell Construction Co., 1319 10th Ave., Columbus, \$16,634; Richmond and Jefferson Counties—2 bridges and culvert, Augusta-Louisville road, W. J. Tidwell, Douglasville, \$12,379; Richmond County—bridge and culvert, Augusta-Thomson road, E. M. Williams, Monroe.

La., Bogalusa—Barber Brothers have contract, \$1.49 per sq. yd., for about 9 mi. paving. 9-26

La., New Orleans—City, T. W. Walmsley, Commr., let contracts totaling \$217,089 for vitrified brick, rein. conc., asphalt, bitulithic paving, sub-surface drains, footwalks, on various streets, including Crossman, Iberville, Pritchard, Quince, Apricot St., Broadway, etc.; M. J. Flynn, Globe Construction Co., Louisiana Bldg.; Southern Uvalde Rock Asphalt Contracting Co., New Orleans Bank Bldg.; M. Mitchell & Sons, 323 Saratoga St.; J. F. Egan, New Orleans; Lion Contracting Co., Inc., Balter Bldg.

Mississippi—State Highway Dept., Jackson, let contract to Boddie Construction Co., Laurel, to gravel 3 roads: Attalla County—Kosciusko to Durant, Kosciusko to Ackerman; Choctaw County—Kosciusko to Ackerman; to Superior Sand & Gravel Co. for washed gravel; G. A. Draper, State Highway Engr. 10-10

Mo., Clayton, St. Louis—St. Louis County Court, Walter E. Miller, Clk., let contract to C. A. Moreno & Co., Syndicate Trust Bldg., St. Louis, \$55,631, for Sappington road, between Manchester road and Monroe Ave.

Mo., Joplin—City, O. P. Mahoney, Commr. of Streets, let contract to V. E. Koch, for conc. pavement Seventeenth St., Kentucky Ave. to Missouri Ave., at 68 cents per cu. yd. for excavation, \$1.73 per sq. yd. for paving.

Mo., Sedalia—Pettis County, C. Ewen, Clk., let contract to Bertram & Menefee, Sedalia, to gravel 5.75 mi. 30-ft. Thornleigh Special Road Dist. 13.

Mo., Springfield—City, C. R. Dickerson, Clk., let contract to F. X. Barron, for conc. paving, Benton Ave., Pine to Phelps St.

N. C., Southern Pines—City, H. F. Burns, Clk.-Treas., let contract to W. H. Anderson Construction Co., Medical Bldg., Asheville, for 2 mi. curb and gutter, about 2 mi. sanitary sewer and 3,000 ft. storm drainage; Gil-

bert C. White, 202 Court Arcade, Charlotte, Engr., in charge. 10-18

Okla., Tulsa—City, Dan W. Patton, Mayor, let contract to Porter Construction Co., Lewis St. and Frisco tracks, for 26-ft. pavement, Elgin Ave., Dist. No. 981; to Carl Pleasant, Inc., 229 N. Nogales St., for 26-ft. pavement, West Second St., Dist. No. 982; to Porter Construction Co. for 20-ft. pavement, alley, Burnett Addition, Dist. 983; to H. L. Cannady Co., 1118 S. Lewis St., \$14,379, for 26-ft. pavement, Quaker Ave., Dist. 984.

Okla., Walters—State Highway Dept., Little Rock, let contract to John T. Abels, Madill, \$40,000, to grade and widen 66 to 80 ft., about 7 mi. Highway No. 5, east of Walters, Cotton County; to Boardman Co., Maple and Hawk Sts., Oklahoma City, \$72,500 for 3 steel and conc. bridges, one over East Cache Creek, east of Walters.

Okla., Wewoka—Seminole County Comms., let contract to Ward-Beekman Construction Co., Box 1511, Oklahoma City, at about \$100,000, to pave 4 mi. road north of Wewoka; to Taylor & Younger Bros., Stock Yards Station, Oklahoma City, to grade and drain road west of Sasakwa.

Tenn., Johnson City—City Comm., W. O. Dyer, Commr. of Streets, let contract to Southeastern Paving & Construction Co., Johnson City, to grade, pave and curb West Market St., Watauga Ave. to Hillcrest Dr.; Baxter St., Holston to Watauga Ave.; to Waddell & Smith, Johnson City, for catch basins, manholes, sanitary and storm sewers in same district; W. B. Ellison, Mayor. 9-5

Tex., Amarillo—City, W. N. Durham, Mgr., let contract to Guber & Thompson, 316½ Polk St., to surface Johnson St.; Amarillo Construction Co., 614 Lipscomb St., \$19,195, to pave Arthur St.; John S. McKnight, 2014 Monroe St., \$20,537, to pave Houston St.; to Wilmering & Mullen, 96 Polk St., to pave alley, Polk to Tyler, Ninth to Tenth St. 10-3

Tex., Austin—Southwest Bitulithic Co., Littlefield Bldg., has contract to pave Guadalupe St.

Tex., Cameron—Interstate Contract Co. has contract to hard surface 15.06 mi. Highway No. 43, Milam County, from Milano through Rockdale to Rockdale-Thorndale precinct line at Dry Brushy Creek, 18-ft. wide rein. conc.

Tex., Houston—F. L. Scott has contract, \$16,000 to bit. surface Wayside Dr., Telephone road to Harrisburg.

Tex., Houston—City, W. E. Montie, Mayor, granted permit to Gulf Bitulithic Co., 2820 Polk St., to pave Live Oak St., Rose-dale to Wentworth, under private contract; H. L. Shaw, City Engr.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ark., El Dorado—See Roads, Streets, Paving.

Ark., Fort Smith—City votes Dec. 2 on \$54,000 bonds for completion of Carnall Ave. storm sewer.

D. C., Washington—Following have contracts for storm sewers: W. F. Brenizer Co., 101 New York Ave., N. E., at \$46,326 for Hickeys Run sewer; Logan Pingree, for 19th St. combination sewer; J. P. Maher, 3108 K St., N. W., for Belmont Rd. outlet; M. Cain Co., 13 Sixth St., N. W., at \$11,612; for Michigan Ave. storm sewer; Consolidated Engineering Co., 15th and K Sts., N. W., at \$13,338, for Manor Park combined system.

D. C., Washington—Dist. Comms. receive bids Oct. 29 for \$130 ft. of sewer. See Want Section—Bids Asked

Fla., Tampa—City, H. B. Broach, Alderman, construct first unit of \$230,000 Comanche Ave., sewer project, furnish drainage to 250 acre residential section; cost \$44,000.

Ga., Columbus—J. B. McCrary Engineering Corp., Atlanta, has contract at \$67,000 for extension of combined storm and sanitary sewers. 10-17

Ga., Columbus—City, H. B. Crawford, Mgr., receives bids Oct. 28 for sewers in Mile and Cooks Branches and rein. conc. sewer in Schuesslers Ditch. See Want Section—Bids Asked.

Ky., Ashland—Ashland Construction Co., Ashland, has contract at \$57,594 for sewer in Mt. Adams and Gartin Addition. 10-10

La., St. Martinville—See Water Works.

La., New Orleans—Economy Iron Works, Inc., 643 S. Peters St., reported, low bidders at \$21,750 for furnishing pumps for sewer stations Nos. 16, 17, 18 and B. 8-29

Md., Baltimore — See Airports, Airplane Plants, etc.

Md., Baltimore — Angelozzi Construction Co., 123 S. High St., low bidder for Storm Water Contr. 130, Woodbine and Ready Aves.

Miss., Bay St. Louis—Sylvan J. Ladner, Commr. of Public Utilities, receives bids Nov. 4 on c. i. pipe, 6,000 lbs. pig lead, etc.; prices f. o. b. Bay St. Louis.

Miss., Eupora—Town receives bids Nov. 5 for furnishing labor and materials for 10-in. sewer pipe line from septic tank to Little Black or one of its tributaries; T. B. Foard, Clk.

Miss., Hattiesburg—See Water Works.

Miss., Louisville—See Water Mains.

Mo., Belton—See Water Works.

Mo., Kansas City—Boyle Construction Co., 7601 Myrtle St., reported, low bidder at \$143,850 for Sec. A of Robert Gilliam Sewer.

Mo., St. Louis—Citizens Bond Issue Supervisory Committee, reported, approved 2 sewer projects to cost \$1,620,000, including section F of River Des Peres drainage system, extending from Forest Park near Lindell and Skinker Blvd. to city limits, and O'Fallon St. sewer, extending from High St. to river; W. W. Horner, Ch. Engr. 10-17

Mo., St. Louis—Bd. of Public Service receives bids Nov. 5 for sewers within Clifton Dale Joint Sewer Dist. and Clifton Heights Sewer Dist. No. 5, Manchester Ave. Sewer Dist. No. 3, South Hurst Sewer Dist. No. 2.

N. C., Southern Pines—See Roads, Streets, Paving.

Okla., Oklahoma City—City, Wm. W. Small, City Engr., plans construction 2 storm sewers.

Okla., Ponca City—City, reported, plans \$300,000 storm sewer bond issue; H. W. Crawford, Engr. 9-26

Tenn., Cleveland—Lee A. Gridley Construction Co., Daylight Bldg., Knoxville, has contract for 3000 ft. of sanitary sewer on Wildwood Ave.

Tenn., Johnson City—See Roads, Streets, Paving.

Tenn., Jonesboro—Town receives bids Oct. 29 for sewer and water works material. See Want Section—Bids Asked.

Tex., Angleton—City votes Nov. 16 on \$32,000 sewer bonds.

Tex., Beaumont—See Roads, Streets, Paving.

Tex., Deport—City engaged J. W. Crook, C. E. Paris, for preliminary survey for water works and sewerage system.

Tex., Harlingen — City plans voting on bonds for enlargement of sewage disposal plant, extension of sewers, build golf course, etc. See Financial News Columns.

Tex., Houston — Elder Construction Co., 4714 Jack St., reported, low bidder at \$18,000 for storm sewers on Dart, Hickory to Houston Ave.; Ricker Construction Co., Inc., Colorado St., low bidder for sanitary sewers in section east of Houston Ave. between Dart and Houston and Texas Central tracks.

Tex., Houston — B. P. Panas, Esperson Bldg., has contract for sanitary sewer, Dennis, Scott to Napoleon, and on Napoleon, Dennis to Webster.

Tex., Longview—See Water Works.

Tex., Port Arthur—See Water Works.

Tex., Fort Worth—City Engineering Dept. completed plans for 3 storm sewer projects, cost \$100,000.

Tex., Sweetwater — City, C. W. Bryant, Mayor, receives bids Oct. 28 for sewers and water works. See Want Section — Bids Asked. 9-26

Street Railways

Tex., Dallas — Dallas Railway Terminal Co., Richard Meridether, V-Pres. and Gen. Mgr., has materials on ground for extension of Junius Heights car line. 8-22

Tex., Dallas—Dallas Railway & Terminal Co. rebuild Highland Park line tracks.

Telephone Systems

Fla., Jupiter—Mackay Radio & Telegraph Co., Inc. Haraden Pratt, Ch. Engr., 67 Broad St., New York, let following for radio station for communication with ships at sea:

Mast steel, Virginia Bridge & Iron Co., Roanoke, Va.; Mast Foundations, D. F. Paddock, 712 Harvey Bldg.; Coleman & Tinder; road, Southern Builders Supply Co., Box 9033, Northwood Sta., all West Palm Beach; plant to consist of 300 ft. guyed steel masts and building containing 4 radio transmitters and receivers. 8-29

Ga., Atlanta—Atlanta Broadcasting Co., Walter Tison, Henry Grady Hotel, and Southern Broadcasting Co., W. A. Clarkson and Walt Dobbins, 108 Peachtree St., applied to Federal Radio Comm., Washington, D. C., for permission to operate 1000-watt radio station.

Ga., Atlanta—Southern Bell Telephone & Telegraph Co. issuing \$32,000,000 first mortgage sinking fund 5% gold bonds through J. P. Morgan & Co., New York; Kuhn, Loeb & Co., New York; First National Bank, New York; Bankers Co. of New York; Harris, Forbes & Co.; National City Co., New York; Guaranty Co. of New York and Lee Higginson & Co., Kidder, Peabody & Co., both Boston; company, with subsidiary and connecting companies, provides telephone service through Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and most of Kentucky.

Missouri—North Central Telephone Co., Kansas City, authorized by Public Service Comm. to acquire exchanges and systems in Southern Missouri of Inland Telephone Co., including properties at Ironton, Piedmont, Pacific, Williamsville, Forbes Farm, Leadwood, Caledonia, Van Buren and Fremont.

Mo., St. Louis—Southwestern Bell Telephone Co., Shields R. Smith, Gen. Mgr., reported, acquired site, Olive and Beaumont St., and preparing plans for telephone building to cost \$1,000,000 with equipment; 3 story, 275x134 ft., provide for expansion; house repeater equipment; begin construction early in 1930, to be complete by Aug. 1; I. R. Timlin, Archt., Telephone Bldg.

Mo., St. Louis—Voice of St. Louis, Nelson P. Darragh, Pres., Mayfair Hotel, authorized by Federal Radio Comm. to construct 50,000-watt transmitter for station KMOX; plans expending approx. \$300,000. 5-30

Mo., West Plains—West Plains Telephone Co. applied to Public Service Comm. for authority to sell exchange and telephone system to Central West Missouri Telephone Co., Kansas City.

N. C., Greensboro — Southern Bell Telephone & Telegraph Co., Hurt Bldg., Atlanta, Ga., let contract to Barge-Thompson Co., 136 Ellis St., N. E., Atlanta, Ga., for telephone exchange, Sycamore and Eugene St.; Marye, Alger & Vinour, Archts., Walton Bldg., Atlanta. 8-29

N. C., Greensboro — Virginia Bridge & Iron Co., P. O. Drawer 925, Roanoke, Va., has contract for 200 tons steel for telephone building of Southern Bell Telephone & Telegraph Co., Atlanta, Ga.; Barge Thompson Co., Gen. Contr., 136 Ellis St., N. E., Atlanta, Ga. 8-29

N. C., High Point — WNRC, Greensboro, establish broadcasting station, Sheraton Hotel, within 2 weeks, to be operated by remote control from Greensboro by special wire.

Tex., Galveston — Texas Associated Telephone Co., C. W. May, Plant Supt., Houston Bldg., San Antonio, advises expend approx. \$30,000 to \$40,000 in Galveston County for telephone construction, including outside plant, lines and central office equipment; does not include building; rent or lease quarers; purchase of equipment handled by company's purchasing agent, Chicago, Ill. 10-10

Va., Langley Field, Hampton — Signal Corps opens bids Oct. 28 for building, tower and antenna supports for radio beacon station.

Va., Richmond—Following have sub-contracts for Boulevard exchange of Chesapeake & Potomac Telephone Co.: Struc. steel and misc. iron, Richmond Structural Steel Co., 17th & Dock Sts.; cut stone work, I. J. Smith & Co., Hermitage Rd.; rein. steel, Virginia Steel Co., 17th & Dock Sts.; plumbing, heating and ventilating, S. H. Guza, 2001 North Ave.; elec. work, W. P. Neblett, 3 S. 12th St.; excavation, J. H. Montague, 2815 E. Main St.; brick work, Fulton Brick Works, Fifth & Main Sts.; glass and glazing, Sash, Door & Glass Corp., Sixth & Stockton Sts.; roofing and sheet metal, N. W. Martin & Bro., 17th & Dock Sts.; all Richmond; John W. Cowper Co., Inc., Contr., State Planters Bank Bldg.; Voorhees, Gmelin & Walker, Archt., 101 Park Ave., New York 10-3

West Virginia — Chesapeake & Potomac Telephone Co. of West Virginia, Charleston, authorized by Interstate Commerce Comm. to acquire private exchange at Barboursville, Hurricane and Summersville. 9-5

Textile Mills

N. C., Hemp—Pinehurst Silk Mills, changed name from County Moore Mills, Thomas Taylor Lucas, Pres., manufacturers rayon and silks.

S. C., Greenville—St. John Mfg. Co., capital \$100,000, incorporated; W. R. Thompson, D. A. Boyd; manufacture rayon and silk goods.

S. C., Hartsville—Hartsville Print & Dye Works, reported, let contract to Sam N. Hodges Co., Erlanger Theater Bldg., Atlanta, Ga., for addition to mill; plans by company's engineering department; 1 story warehouse, 87x120 ft.; mill type construction, conc. footings, tar and gravel roof, steel sash and doors. 8-15

Tenn., Morristown—Aronsohn & Hirschfeld Silk Co., Inc., 159 Madison Ave., New York, and Central and Montview Ave., Morristown, reported, enlarge silk mills.

Tex., El Paso—Underwear of Rayon, Inc., capital \$200,000, incorporated; M. Wildstein, 210½ E. Overland St.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Bearden—Guy A. Watkins, Conslt. Engr., Hall Bldg., Little Rock, preparing plans for water works and sewer system at Bearden.

Ark., Stephens—Guy A. Watkins, Conslt. Engr., Hall Bldg., Little Rock, preparing plans for water works.

Ky., Dayton, Bd. of Newport—City, Frank Staab, Clk., receives bids Oct. 28 for installation distribution system. See Want Section—Bids Asked.

La., St. Martinville—Town Council plans voting Nov. 14 on bonds for improvements to water works, electric light plant, distribution system, extension of water mains and electric lines etc.

Miss., Hattiesburg—City votes Nov. 5 on \$300,000 water works improvement bonds and \$100,000 sewer extension bonds.

Miss., Marks—City, E. L. Boudreau, Clk., receives bids Nov. 5 for 1200 ft. of 6-in. c. i. water pipe.

Mo., Belton—City votes Nov. 15 on \$97,000 water and sewer bonds.

Mo., Jefferson City—Capitol City Water Co., L. W. Helmreich, Mgr., construct \$30,000 extension to present system; 2 mile 6, 8, and 10-in. c. i. mains. 9-26

Okla., McAlester — Garrett Construction Co., 412½ Court St., Muskogee, has contract at \$85,000 for constructing 3 dams; V. V. Long & Co., Conslt. Engrs., Oklahoma City. 10-17

Okla., McAlester—W. F. Plummer, Union Natl. Bank Bldg., Springfield, Mo., has contract at \$23,000 for section No. 4 water works extensions.

Okla., Norman—City, Jack, Foster, Mayor, plans 500,000 gal. water tower; cost \$30,000.

Okla., Oklahoma City—Sherman Machine & Iron Works, 18 E. Main St., Oklahoma City, reported, low bidder at \$108,308 for water main extension.

Tenn., Jonesboro—Town receives bids Oct. 29 for water and sewer system material. See Want Section—Bids Asked.

Tenn., Knoxville—Southern Pipe & Foundry Co., 810 Island Home Pike, reported, has contract at \$11,500 for year's supply of castings and at \$14,292 for fittings for water department.

Tenn., Wartrace—City voted water works bonds; install system, furnish water to Wartrace, Normandy, Cortner and Haley. 9-12

Tex., Corpus Christi—Wilson & Seward, Brady, reported, has contract for installing water and gas lines for Nueces County Water Impro. Dist., No. 1; cost \$13,000. 10-3

Tex., Deport—See Sewer Construction.

Tex., Longview — City votes Nov. 12 on \$55,000 water works, \$15,000 sewer bonds.

Tex., Port Arthur—City votes about Nov. 26 for water and sewer extensions, and park improvements. 10-3

Tex., Sweetwater — City, C. W. Bryant, Mayor, receives bids Oct. 28 for water works

and sewers. See Want Section—Bids Asked. 9-26

W. Va., Fairmont—City, J. Clyde Morris, Director Water Dept., receives bids Oct. 29 for 100,000 gal. tank on Sterling Heights for supplying water to hill districts in city; bids for booster pump, automatic, will be let later.

Woodworking Plants

Ark., Fort Smith — W. J. Echols, Pres., Merchants National Bank, and Thomas L. Daily, Pres., Arkansas Valley Trust Co., heading group of capitalists, acquired Ballman-Cummings Furniture Mfg. Co., including Fort Smith Couch and Bedding Co. and Fort Smith Folding Bed and Table Co.

FIRE DAMAGE

Ala., Attalla—Attalla Lumber Co.'s warehouses and assembling plant; loss \$75,000; C. A. Roberts, owner.

Ala., Birmingham—Office of McWane Cast Iron Pipe Co., 3700 Eleventh Ave., North; loss \$14,000.

Ark., Camden—C. S. Gordon's building, Main and Grinstead Sts.; loss \$10,000.

Ark., Trumann—J. T. Marshall's gin; loss \$10,000.

La., Alexandria—O. C. Butler Lumber Co.'s planing mill and lumber yards, loss \$65,000; sawmill of Benoit-Spencer Lumber Co.; tenant house of Adams Brick Co.

La., Arcadia—T. J. Best's residence.

La., Lake Charles—Fred Rollosos's stationery store, 905 Ryan St.; loss \$10,000.

La., Montgomery—H. E. Robertson's residence.

La., Provencal—Martin Hotel, address The Proprietor; R. T. Osborn's Store; Hawthorne Cash and Carry Store; Palace Cafe; Dunway Drug Store.

La., Waterproof—Gin properties of Burns Planting Co.

Md., Baltimore — Henry Zander's boiler house and portion of greenhouses, Joppa Rd., east of Harford Rd.

Md., Baltimore — Main flour mill and elevators of D. A. Strickell & Sons, Inc., on

Md., Lutherville—Hugh Price's residence.

N. C., Asheville—Imperial Theatre; loss \$20,000.

N. C., Hendersonville—Old Kentucky Home Hotel owned by E. B. Wooten; loss \$25,000.

N. C., Shelby—Cleveland Springs Hotel, near Shelby, owned by Gov. O. Max Gardner and associates, operated by Martin & Beauregarde, New York; loss \$125,000.

S. C., Sumter—Booth-Boyle Stock Co.'s office, stables and implement warehouses; loss \$20,000; shop building of John Evans Welding Co., loss \$5000; residence of E. H. Moses and E. I. Reardon; Boyle Bldg., occupied by Chandler Plumbing Co., Pritchard's Grocery store and shop of Sumter Sign Co.

Tenn., Chattanooga—Dairy barns of A. S. Rosensweig; loss \$10,000.

Tenn., Pulaski—Best Theater; Kuhn's Store; loss \$15,000.

Tex., Austin—Several bldgs., Camp Mabry. Address The Commandant.

Tex., Brady—Seed warehouse of McCulloch County Oil Mill; loss \$50,000.

Tex., Brady—Cotton seed cleaning plant owned by Consumers Cotton Mill Co., Presidio; loss \$10,000.

Tex., Denton—Mrs. C. H. Williams' residence near Denton.

Tex., Graham—H. D. Grant's gin; loss \$20,000.

Tex., Mexia—Jays Cafe; loss \$10,000.

Tex., San Marcos—Power plant on San Marcos River of Texas Power & Light Co., Dallas.

Va., Pennington Gap—J. O. Gibson's building, Kentucky Ave. and Depot Sts.; Earl Laney's pressing shop and garage; J. R. Legg's building occupied by Bernard Coleman's Furniture Store; Roller Building.

W. Va., Nutter Fort—Bert Brown and Cornelius Aizpuru's buildings; loss \$10,000.

Association and Fraternal

Miss., Columbus—Young Men's Christian Assn., Frank P. Phillips, interested, inaugurate \$65,000 campaign Oct. 29 for building.

Tenn., Knoxville—Sycamore Camp No. 3, Woodmen of the World, L. T. McSpadden, Consul Commdr., selected R. F. Graf & Son, Journal Bldg., as architects for \$60,000 to \$100,000 lodge and office bldg., Market St.; 4 stories, 100x57 ft., brick. 9-19

Tex., Brownsville—Ancient Free and Accepted Masons, Dr. S. K. Hallam, member, may erect temple.

Tex., Dallas—Young Men's Christian Assn. selected Bryan & Sharp, Construction Industries Bldg., as architects for \$170,000 Oak Cliff branch; brick, tile, stone and rein. concrete. 7-25

Bank and Office

La., Monroe—Jas. A. Noe, 106 Fairview St., C. H. McHenry, Bernhardt Bldg., both Monroe, O. E. Hodge, Ruston, and others erect \$500,000 Medical Arts Bldg., Jackson and Harrison Sts.; 11 stories; work probably start in 30 to 45 days.

Md., Baltimore—Carroll Independent Coal Co., R. Benson Phelps, Pres., 25th St. near Taylor Ave., plans \$15,000 office bldg. E. 25th St.; brick, 2 stories; work will not start at once; J. R. Forsythe, Archt., 16 E. Lexington St.

Md., Baltimore — Provident Savings Bank of Baltimore purchased property, 5426 Harford Ave.; remodel for branch bank; Edw. L. Palmer, Archt., 513 N. Charles St.

Miss., Morton—Bank of Morton has low bid at \$10,500 from Currie & Corley, Raleigh, for 1-story brick and stone trim bank bldg.; N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson.

Tenn., Nashville—John Oman, Jr., care Chamber of Commerce, erect 1-story and basement office bldg.; brick, stone and conc., 28x65 ft., asphalt shingle roof, steam heat; Henry C. Hibbs, Archt., Nashville Tr. Bldg.; bids in.

Tex., Dallas—Dallas Power & Light Co., Interurban Bldg., plans \$1,250,000 office bldg.; 18 stories.

Tex., Eldorado — E. J. Hill have plans ready about Nov. 1 for bids on \$50,000 office bldg.; brick and stone, 2 stories and basement, 39x60 ft., terrazzo floors, Barrett roof; Korn & Morgan, Archts., Thomas Bldg., Dallas, and San Angelo Natl. Bk. Bldg., San Antonio. 7-18

Tex., El Paso—Mortgage Investment Co., Stanton and Mills Sts., plans \$15,000 bldg., 200 block N. Stanton St.; Trost & Trost, Archts., Two Republics Bldg.

Tex., Galveston—American Fire & Marine Insurance Co., 2326 B St., Sealy Hutchings, Pres., at meeting Oct. 31 will consider increase of capital stock to \$1,000,000; may erect home office building.

Tex., Mission—Chamber of Commerce erect \$25,000 bldg.; Spanish type, hollow tile, 1 story, band stand on roof; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg., San Antonio; sketches completed.

Tex., San Antonio—Publix Theater Corp. ready for bids about Nov. 15 for \$1,500,000 theater and office building; Boller Brothers, Archts., 114 W. 10th St., Kansas City, Mo. See Buildings Proposed—Theaters. 5-2

Churches

Ala., Ozark — Methodist Church, J. E. Z. Riley, Chmn., Bldg. Comm., receives bids Nov. 4 for brick Sunday school; \$25,000, 2 stories and basement, comp. shingle roof, steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg.

Ark., Cullendale, Camden—Baptist Church organized with Rev. J. G. Harris as pastor; plans building.

Ark., Little Rock—Pine Crest Memorial Park, 712 Boyle Bldg., plans church, to be called Little Church of the Flowers, Hot Springs Highway at Collegeville.

Ga., Atlanta—North Ave. Presbyterian Church, Dr. Richard Orme Flynn, Pastor, approved plans for \$100,000 Sunday school;

BUILDING NEWS

BUILDINGS PROPOSED

probably call for bids by Nov. 5; rein. conc., brick and tile, stone trim, 3 stories, conc., hardwood and tile floors, comp. roof; R. H. Hunt Co., Archt., James Bldg., Chattanooga, Tenn.; Robt. S. Fiske, Consit. Engr., Healey Bldg., Atlanta; \$300,000 auditorium later. 8-22

Ga., Savannah—Immanuel Baptist Church, Henry and Ott Sts., Rev. E. A. Daniel, Pastor, plans to purchase site for new building.

Ga., St. Simons Island—Waycross (Ga.) District of Methodist Church plans to establish church.

Ga., Thomasville—First Methodist Church selected Ivey & Crook, Candler Bldg., Atlanta, as architects for Sunday school addition; brick, wood and cement floors, comp. roof.

Md., Baltimore—St. Marks M. E. Church, Garrison Blvd. and Liberty Heights Ave., Geo. C. Saunders, Chmn., Bldg. Comm., Standard Oil Bldg., soon start work on \$200,000 auditorium as second unit of \$450,000 church; Gothic type, gray stone, 2 stories, about 52x200 ft., slate roof, seat about 750 on main floor; architect not selected; probably consider original sketches by Clyde N. & Nelson Friz, Lexington Bldg.; fund campaign Nov. 2 to Dec. 3.

Md., Rockville — Rockville Presbyterian Church has not yet determined upon date for bids for \$30,000 stone bldg.; Rossel Edw. Mitchell, Archt., 910 Seventeenth St. (archt. lately incorrectly reported). 10-17

Miss., Hattiesburg—First Baptist Church probably open bids in 90 days for \$150,000 bldg., Buschman St.; brick and steel, 1, 2 and 3 stories, wood floors; E. C. Heaton & Sons, Archts.-Engrs., 121 W. Pine St.; preliminary plans. 9-19

Okla., Pauls Valley — Christian Church erect \$12,000 brick bldg., Ash and Bradley Sts.; Sorey & Vahlberg, Archts., Braniff Bldg., Oklahoma City.

Okla., Shawnee — Methodist Episcopal Church, E. S. Tatam, member, plans brick and rein. conc. bldg.; 1 story, 37x37 ft.

Tenn., Chattanooga — St. Pauls P. E. Church, Z. C. Patten, Jr., Chmn., Bldg. Comm., plans \$27,000 Sunday school addition; brick, 2 stories, 50x75 ft.; Jas. Verhey, Archt., 106 Cleveland Pk.; preliminary plans drawn.

Tenn., Clarksville—Second Baptist Church, Rev. E. H. Greenwell, Acting Pastor, plans to soon purchase site for building.

Tex., Beaumont—Westminster Presbyterian Church opens bids about Nov. 15 for \$125,000 brick and steel Sunday school; 3 stories, 55x140 ft.; furnishings, equipment, etc., \$25,000; Livesay & Wiedemann, Archts., San Jacinto Life Bldg. 8-29

Tex., Georgetown—Methodist Church raising funds for \$20,000 to \$30,000 Sunday school.

Tex., Junction — Methodist Church, Rev. Milton F. Hill, Pastor, opens bids Oct. 29 for face brick and hollow tile bldg.; auditorium and basement, tile roof; Morris & Noonan, Archts.-Engrs., Bldrs. Bldg., San Antonio. 10-10

Tex., Nacogdoches—First Baptist Church, Rev. Bonnie Grimes, Pastor, plans \$50,000 bldg.; raising funds.

Tex., San Antonio—Carmelite Fathers, care Rev. Edw. Soler, 908 Kentucky Ave., having plans drawn by C. L. Monnot, Archt., Perrine Bldg., Oklahoma City, Okla., for \$300,000 Shrine of the Little Flower, N. Zarzamora St. and Kentucky Ave.; brick, tile and rein. concrete.

Tex., South Houston—Community Church organized with Rev. M. P. Shirliff as pastor; erect temporary bldg.; later erect permanent structure.

Va., Gloucester C. H.—Presbyterian Church plans building.

City and County

Ala., Selma—Dallas County Bd. of Revenue opens bids Nov. 18 for remodeling court room of courthouse; Frank Lockwood, Archt., 119 Adams Ave., Montgomery.

Ark., Fort Smith—City votes Dec. 2 on \$25,000 fire station bonds. 8-29

Fla., Jacksonville — City, Fred M. Valz, Commr. of Public Safety, selected Jefferson

D. Powell, Professional Bldg., as architect for \$50,000 fire station, Duval and Jefferson Sts.; brick, stone trim, 2 stories, conc. foundation, comp. roof. 8-8

Ky., Louisville—Board of Public Safety plans fire station, vicinity 18th and Hill Sts., West End.

La., New Orleans—City Comsn. Council receives bids Oct. 29 (extended date) for \$200,000 Touro-Shakespeare Almshouse; details in 9-19; estimators in 9-17; Wm. R. Burk, Archt., Baiter Bldg.; additional contractors estimating; J. A. Haase, Jr., 916 Union St.; Lionel F. Favret, Louisiana Bldg. 9-17

Miss., Iuka — Tishomingo County votes Nov. 2 on \$125,000 courthouse bonds. 9-19

N. C., Hendersonville—Henderson County Bd. of Commrs., T. Dulus Shepp, Chmn., may erect fireproof curb market bldg. to be used by Curb Market Assn.

Tenn., Chattanooga—City, Jas. A. Cash, City Commr., erect \$9000 to \$10,000 addition to Missionary Ridge fire station; 2 stories and basement; ready for bids.

Tex., San Antonio — City, Phil Wright, Fire Commr., opens bids Oct. 28 for drill tower; conc. and brick; separate bids for wiring, plumbing, fire escapes and ladders; I. Ewig, City Engr. 9-26

Tex., San Antonio—City, Phil Wright, Fire Commr., considers erecting \$25,000 fire station, Harlandale; also may erect fire station, Terrell Hills.

Va., Norfolk—City Council establish prison farm adjoining city home; \$18,000 appropriated; advises arrangements not yet completed.

W. Va., Wellsburg—Chamber of Commerce interested in erection of fire station.

Dwellings

Ala., Birmingham—Dr. Chalmers Moore, 2238 Highland Ave., erect brick veneer residence, Mt. Brooke Estates; 2 stories, slate roof, steam heat; Jacob E. Salie, Archt., 2109 Fifth Ave. N.; bids in.

Ala., Birmingham—J. Edgar Bowron, First Natl. Bk. Bldg., has low bid at \$11,897 from H. J. Tillia, 406 N. 23rd St., for residence; Turner & Slater, Archts., Martin Bldg. 10-13

D. C., Washington—D. C. Gruver, 927 15th St., N. W., erect brick dwellings, 3814-25 Benton St., N. W.; 2 stories; \$70,000.

D. C., Washington—Alfred T. Newbold, 5626 Connecticut Ave., N. W., erect 2 dwellings, 4601 Linnean Ave., N. W., and 1400 Montague St., N. W.; stone and stucco, and brick, 2½ stories; \$36,000.

D. C., Washington—Edw. St. Cyr Barrington, Archt., Southern Bldg., drawing plans for \$65,000 Colonial dwelling; brick, 2½ stories.

D. C., Washington—Henry J. Connor, 3221 Connecticut Ave., N. W., has permit for \$10,000 residence, 1334 Kalmia St., N. W.; brick, tile and stone, 2 stories.

D. C., Washington—Capital View Realty Co., Union Trust Bldg., has permit for 4 brick dwellings; 2 stories; \$14,000.

D. C., Washington—F. O. Klinckewitz has permit for 4 brick dwellings, 5745-51 Thirteenth Et., N. W.; 2 stories; \$25,000.

Fla., Babson Park—Harry G. Vissering receiving bids, to be opened about Nov. 1, date not determined, for hollow tile and stucco residence and keeper's house; \$75,000, 1 and 2 stories, 42x40 ft., slate or tile roof, oak floors; Schumacher & Winkler, Archts., 610 Magnolia St., Tampa. 5-16

Fla., Fort Pierce—Dr. A. D. Murphy, care Chamber of Commerce, opens bids about Oct. 20 for winter residence, Indian River Drive.

Fla., Fort Pierce—Stephen H. Leshner, Bourse, Philadelphia, Pa., plans winter residence, Indian River Drive.

Fla., Lakeland—W. F. Cornell, 727 Chiles St., completed plans for \$11,500 residence, Cleveland Heights; frame, oak floors, tile roof; 2 stories, 92x80 ft., metal lath.

Fla., Miami Beach—Robt. A. Jackson, Oakdeen Farms near Pittsburgh, Pa., about ready for bids on \$50,000 to \$60,000 Mediterranean type residence, garage and servants' quarters, Altos Del Mar No. 2; Wm. F. Brown, Archt., Bastian Bldg.; Miami Beach; following contractors invited to estimate: E. R. Lindsay, Bastian Bldg.; R. W. Edholm, Bastian Bldg.; Miami & Beach Construction Co., 1215 Lincoln Rd.; all Miami Beach; G. A. Chapman, Exchange Bldg., Miami. 8-15

Fla., Miami Beach—Harold A. Clark erect \$25,000 reh. conc. block and brick residence, 3838 Collins Ave.; 1 and 2 stories,

65x60 ft., 36x40 ft. struc. steel, Quarry Key and cast stone trim, 3 tile baths, shower, toilet, 5-ft. conc. block wall; Russell Pan-coast, Archt., Lincoln Rd.; bids in.

Fla., Orlando—I. C. Scudder, 112 Underwood St., plans 2 dwellings, Angebilt addition.

Ga., Atlanta—Russell Bellman, 2 Collier Rd., has low bid at \$19,555 from T. C. Wesley & Son, Red Rock Bldg., for residence; Pringle & Smith, Archts., Norris Bldg. 9-26

Ky., Frankfort — R. F. Bradley erect residence, Logan St.; plans drawn.

Ky., Louisville — Paul B. Pilcher, 2008 Douglas Blvd., erect \$10,000 brick and stucco residence, 2810 Reidling Drive.

La., New Orleans—Fred Hardie erect brick and stucco residence, Spanish type, 2 stories;

Md., Baltimore—John A. Hugg erect stucco residence, Tilbury Way; John R. Forsythe, Archt., 16 E. Lexington St.

Md., Baltimore—Earl G. Taylor, 3125 Abell Ave., erect \$18,000 brick residence, 2804 St. Paul St., Guilford; Machen & Dixon, Archts., 312 N. Charles St.

Md., Baltimore—C. Blake Pitt, 1717 Winde-mere Ave., erect brick residence, Purlington Way; E. W. Wolcott, Archt., 324 N. Charles St.

Md., Baltimore—Geo. A. Gebb, Mayfield and Crosland Aves., erect \$12,000 residence, 204 Witherspoon Rd.; after plans by Fredk. Thomas, 726 E. 33rd St.; succo and stone, 2 stories. 10-3

Md., Baltimore — John J. Hurst, 413 St. Paul Place, erect 2½-story stone dwelling, Cotswold Rd. and Belvedere Ave.

Mo., Kirkwood, St. Louis—Jos. Sunnen, 4514 Oakland Ave., considers erecting 2-story brick residence.

Mo., St. Louis—Jos. A. Grabber, 625 Bates St., considers erecting brick residence.

Mo., St. Louis—Thos. P. Carron, 3418 Nebraska Ave., considers erecting brick residence.

N. C., Winston-Salem—W. T. Williamson, 320 Lockland Ave., erect \$11,500 residence and garage, Oaklawn Ave.; 9 rooms.

Okla., Oklahoma City — C. T. Lockwood, 3118 W. 18th St., erect 2 dwellings, 1221-25 E. 14th St.; \$10,000.

Okla., Oklahoma City—J. B. Best erect 3 dwellings, 2638-46 N. 13th St.; \$15,000.

Okla., Oklahoma City—Max Burnett erect 4 duplexes, 2501-05109 W. Park Place and 2512 W. 11th St.; \$20,000.

Okla., Tulsa—Dr. S. B. Markin erect brick and stone residence; 2 stories and basement, 39x41 ft.; John T. Blair, Archt., 708 S. Main St.

Tenn., Memphis—J. A. Haley, Exchange Bldg., erect \$10,000 brick veneer dwelling, 924 N. McNeen St.

Tenn., Memphis—C. C. Mullins, 642 Gage St., considers erecting two \$5000 dwellings in Dec.; brick veneer, 1 story, tile baths, oak floors, comp. roofs.

Tenn., Memphis—A. M. Austin, 1107 Linden Ave., considers erecting brick veneer residence, Cherry Circle; 1 or 2 stories, hardwood floors, tile bath, comp. roof or tile roof.

Tenn., Memphis—P. E. Kerby, 1144 Tanglewood St., erect \$15,000 brick and stone residence; English type, 2 stories, hardwood floors, tile bath, comp. roof; plans complete.

Tenn., Nashville — Maxie Jarman erect brick veneer, stone and conc. residence, Woodlawn Drive; 2 stories and basement, 29 x52 ft.; Jos. W. Hart, Archt., Jackson Bldg.; bids in.

Tex., Big Spring—Albert M. Fisher receives bids Oct. 30 at office Glenn C. Wilson, Archt., Milam Bldg., San Antonio, for residence; brick veneer, 2 stories, 2 baths. 8-29

Tex., Del Rio—Central Power & Light Co., Frost Bldg., San Antonio, erect 14 employees' dwellings; tile and stucco, frame and brick veneer, 4, 5 and 6 rooms; bids in.

Tex., Fort Worth—Dan Curtis, 3432 W. Seventh St., erect \$10,000 brick veneer residence, 3701 Hamilton St.

Tex., Galveston—Chas. Regini, 3501 Q½ St., erect \$10,000 duplex, 4328 O St.; 2 stories.

Tex., Highlands—Tyrell & Garth Investment Co. erect 20 farm houses, barns and other outbuildings on 50-acre farms in addition to number under constr.; about \$40,000.

Tex., Houston—H. D. Duckett, Jr., erect \$10,500 residence, 1835 Palm St.; brick veneer, 6 rooms.

Tex., Houston—Mrs. Jesse E. Holley erect \$10,000 duplex, 1813 Rosedale St.; brick veneer, 10 rooms.

Tex., Houston—A. W. Estes, S. Houston St., erect 30 frame bungalows during next 12 months, Highland Park, South Houston; \$105,000.

Tex., Nacogdoches—Methodist Church has gift of site for parsonage.

Tex., San Antonio—Thos. Noah Smith, care Wilder & Smith, Archts., Texas Theatre Bldg., erect Italian type residence off Fred-ericksburg Rd.; 3 stories, rein. conc. frame, 5 baths, swimming pool, formal terrace; plans ready about Jan. 1.

Tex., San Antonio—W. E. Douglas, 325 San Pedro Ave., receives sub-bids until Oct. 28 on residence and garage; 1 story, oak floors, stone mantel, metal lath and plaster.

Government and State

Ala., Holt, Tuscaloosa — Central Iron & Coal Co. erect building to be leased to Government for Holt post office.

Md., Fort George G. Meade—Constructing Quartermaster rejected bids for conc. roads, storm, water and sanitary sewers and water mains, hospital area, Fort George G. Meade. 9-5

Tex., Randolph Field, Schertz—Constructing Quartermaster, Capt. A. W. Parker, probably have plans ready about Jan. 15 for Post exchange and academy bldgs., Randolph Field lying school, Seguin Rd.; former 1 story, irregular shape, about 180x280 ft., brick, hollow tile and rein. conc. and stone, metal lath and plaster, tile roof; structure includes stores, cold storage plant, garage and filling station; \$45,000; latter similar constr., 2 stories and basement, about 52x144 ft.; 7 classrooms, library, assembly room, etc.; \$40,000; also have plans ready about March 1 for \$500,000 administration bldg.; brick, hollow tile and rein. conc., stone trim, 2 stories, 112x256 ft., second floor 112x112 ft., 34x34-ft. tower, metal lath and plaster, tile roof; offices, library, auditorium seat 1500. 10-17

Hospitals, Sanitariums, Etc.

D. C., Washington—Bureau of Yards and Docks, Navy Dept., receives bids Nov. 6 for alterations to quarters, Naval Hospital; work includes bath rooms, closets, wood partitions, metal studding, furring and lathing, plastering, marble, metal base, plumbing, heating and elect. equipment, tile floor and wainscoting; following contractors estimating: W. E. Mooney, 2539 Pennsylvania Ave., N. W.; Henry B. Davis, McKee Bldg., 1311 G St., N. W.; Kuldell Bros., 3613 Davis St., N. W.; H. Herfurth, Jr., Inc., Dist. Natl. Bk. Bldg.; Crane Co., 1225 I St., N. W.; Ira Thomas Brant, 944 Fourteenth St., S. E.

La., Alexandria—Louisiana Hot Wells Co. engaged H. L. Dunaway, Valdosta, Ga., to prepare plans for building program in connection with enlargement of health resort at Hot Wells; erect sanitarium, etc. See Buildings Proposed—Miscellaneous. 10-3

La., New Orleans—New Orleans Tuberculosis Assn. have plans by M. B. DePass, Archt., 926 Pauline St., ready in about 30 days for \$80,000 tuberculosis hospital, Gentilly Terrace Addition; frame, 1 story, 40 ft. wide, 4 wards of 50 beds each, 2 dining rooms. 10-17

Md., Annapolis—Emergency Hospital, Miss Ruth Rhoads, Supt., probably soon call for bids for \$40,000 hospital; brick, 3 stories; Henry Powell Hopkins and Alan C. Burton, Archts., 347 N. Charles St., Baltimore. 12-29-27

Md., Chestertown—Kent and Northern Queen Anne General Hospital, Rev. J. White, Chmn., Bldg. Comm., probably soon select architect for \$30,000 hospital; about 20 beds. 2-7

Miss., Jackson—Mississippi Building Comm., W. C. Trotter, Sec., State Capitol Bldg., receives bids until Nov. 7 for repairs and painting of Charity Hospital; plans from C. H. Lindsley, Archt., Lamar Life Bldg., and may be seen at office of Secretary.

Mo., Excelsior Springs—Following contractors estimating on buildings and utilities, U. S. Veterans Hospital, including roads, walks and drainage and wrecking M. O. C. residence, bids Nov. 12 by U. S. Veterans Bureau, L. H. Tripp, Ch. Constr. Div., Arlington Bldg., Washington, D. C.; W. D. Lovell; Peterson-Colwell, Inc., both Minneapolis, Minn.; J. P. Cullen & Son, 109 S. Main St., Janesville, Wis.; Ernest Rokahr & Sons, Lincoln, Neb.; Virginia Engineering Co., Inc., First Natl. Bk. Bldg., Newport

News, Va.; Summer-Sollitt Co., 307 N. Michigan Blvd.; N. P. Severin Co., 222 W. Adams St.; both Chicago, Ill.; Murch Bros. Construction Co., Rwy. Exch. Bldg.; Hiram Lloyd Building & Construction Co., Syndicate Tr. Bldg.; Dickie Construction Co., Louderman Bldg., all St. Louis, Mo.; Algernon Blair, First Natl. Bank Bldg.; A. C. Samford, 301 Washington Ave., both Montgomery, Ala.; Peter Kilwits Sons, Omaha Natl. Bk. Bldg.; V. Ray Gould Co., City Natl. Bk. Bldg., both Omaha, Neb.; W. P. Rose Co., Goldsboro, N. C.; following estimating on elevators: Kerschner Elevator Co., 918 Michigan St., Toledo, O.; Kimball Bros. Co., Council Bluffs, Iowa; Montgomery Elevator Co., Moline, Ill.; Haughton Elevator & Machine Co., 1103 Vermont Ave.; Otis Elevator Co., 810 18th N. W. both Washington; Warner Elevator Co., 2613 Spring Grove Ave., Cincinnati, O.; elect. work, Ray A. Phelps, Beloit, Wis.; softener, Permutit Co., 440 Fourth Ave., New York; Gravel Corp., East Chicago, Ill.; refrigerating, Pyles Refrigeration Engineering Co., 411 W. Pratt St., Baltimore, Md.; Vilter Mfg. Co., Milwaukee, Wis.; York Ice Machinery Co., Belmont & Thompson Sts., Philadelphia, Pa.; Frick Co., Inc., Washington; other firms estimating include Kewanee Boiler Corp., Kewanee, Ill. 10-3

Mo., Springfield—Burge Hospital Bd. of Trustees, Harold Pierce, Pres., will make plans at meeting Nov. 12 for \$150,000 addition; \$100,000 bequest available. 5-2

N. C., Mooresville—Lowrance Hospital, Inc., probably open bids in few days (definite date not determined) for fireproof hospital; \$80,000, 3 stories, 40x126 ft.; Chas. C. Hook, Archt.; Water W. Hook, Asso. Archt., both Commercial Bk. Bldg., Charlotte. 9-26

Okl., Pauls Valley—W. B. Tucker, Sec., Chamber of Commerce, advises no move on foot for \$175,000 hospital. 10-17

Tex., Tyler—Smith County Commrs. Court, Will B. Pace, Judge, probably call election about Nov. 15 on \$200,000 hospital bonds. 9-26

Hotels and Apartments

Ark., Jonesboro—Will Link plans 12-apartment building.

Ark., Siloam Springs—F. F. Freeman, owner of Park Hotel, and John P. Almond, Archt., Boyle Bldg., Little Rock, considering erecting 3-story fireproof hotel; Swiss chalet design, 100 ft. long.

Fla., Lake Placid—Lake Placid Club, Lake Placid, N. Y., reported, erect 500-room hotel, See Miscellaneous Buildings.

Fla., Tampa—Wm. B. Clark erect \$12,000, 2-story, 16-room, brick veneer apartments, 815-17 Maury St.

Ga., Atlanta—Baker Hotel Corp., San Antonio, Tex., does not contemplate erection of hotel as lately reported; if Mr. Baker enters Atlanta he will lease, furnish and operate hotel to be built by local interests for him; deal has not been consummated. 10-17

Ga., Atlanta—Dinkler Hotels Co., Carling L. Dinkler, Pres., start work about Mar. 1, 1930, on \$10,000,000, 20-story Louis Dinkler Hotel, Peachtree and Ellis Sts.; ballroom to accommodate 1000 people; 300-car garage; G. Lloyd Preacher & Co., Wynne-Claughton Bldg., Atlanta, and Thompson, Holmes & Converse, 101 Park Ave., New York, Asso. Archts., lately incorrectly reported Moseley Dinkler Hotels Co. 10-10

Ga., Atlanta—William Wilson, Bona Allen Bldg., erect \$375,000, 11-story and basement, 200x250 ft., rein. conc. and brick, fireproof, 154-apartment, W. Peachtree St. near 11th St.; 2 story, 100x200 ft., garage on Spring St.; Indiana limestone trim, built-up roof, terrazzo and comp. floors, 2 passenger and 1 freight elevator; A. Ten Eyck Brown, Archt.; A. Barill, Jr., Asso. Archt., both Forsyth Bldg.

La., Hammond—X. A. Kramer, McComb, Miss., reported, considering erecting \$400,000 hotel.

La., Monroe—Sig Masur, 900 N. Second St., erect Park View Apartments, Forsythe Ave. and N. Fourth St.; brick.

La., Monroe—H. K. Touchstone, 1001 S. Grand St., soon ready for bids for \$35,000, brick, 12-apartment, 1001 S. Grand St.; tile and comp. roof, built-in features; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg.

La., Shreveport—Reynolds Hotel Co., Floyd H. Hodges, Jr., V.-P., abandoned plans for erection 16-story Inn Tower Hotel; Ashton Glassell Co., Inc., Bldrs., Box 1383; Jones, Roessle, Olschner & Weiner, Archts., Ardis Bldg. 7-11

Md., Bethesda—Ben. C. Perry, care John M. Donn, Archt., 1223 Connecticut Ave., N. W., Washington, D. C., erect \$40,000, 3-story brick apartment and office building, Wisconsin Ave.

Miss., Vicksburg—Ernest Thomas soon let contract for \$60,000, 84x34 ft., brick, 12-apartment, Cherry and Harris Sts. 10-10

Mo., Kansas City—Mayfair Hotel, Barse Stonebroker, Mgr., soon let contract for \$35,000, 1-story brick apartment and store building, Linwood and Tracy Sts.

Mo., Portageville—H. Gabriel plans 2-story brick hotel on Highway No. 6.

Okl., Oklahoma City—F. A. Caldwell has permit for \$20,000 apartment, 2807 Classen Blvd.

Tenn., Knoxville—B. C. Gregory, Harri-man, leased Navarre Apartments, 510 Walnut St., and convert into 100-room hotel, each with bath.

Tex., Dallas—H. T. Crabtree, 316 Woodin St., erect \$30,000, 5-story, brick veneer, 16-apartment, 835-37 N. Bishop St.

Tex., Falfurrias—Management Park Hotel soon start work on \$20,000 improvements to include moving Hotel Annex and joining up with main building, redecorating and re-furnishing 38 rooms, installing hot and cold water and baths, putting in coffee shop.

Tex., Marlin—Hilton Hotel Co., C. W. Hilton, Pres., Dallas, let contract to Nathan Wohlfeld, Construction Industries Bldg., Dallas, for 8-story, 110-room, brick, tile and rein. conc. hotel; cast and natural stone, terra cotta, marble, tile and terrazzo floors; Curits & Thomas, Archts., Construction Industries Bldg., Dallas. 10-10

Tex., San Antonio—Emmy Dittmar Improvement Co., John A. Dittmar, 509 Howard St., plans another apartment hotel in vicinity Twin Parks upon completion \$1,000,000 apartment under construction; probably be end of 1930 before plans are completed; Herff & Jones, 215 W. Commerce St., and Richard Vander Straten, Travis Bldg., Asso. Archts.

Tex., San Marcos—Hofheinz Hotel, Mrs. Maude Fewell, Lessee and Mgr., expend \$10,000 for improvements; exterior to be covered with stucco trimmed in brick, add 6 baths, remodel interior, install steam heat radiators.

W. Va., Webster Springs—John M. Hoover and associates plan to start work in spring on \$200,000 resort hotel; E. C. Holmboe, Archt., Empire Bldg., Clarksburg. 3-1-28

Tex., Wharton—Hans Guldman, 1735 35th St., Galveston, having plans prepared by Giesecke & Harris, Second Natl. Bk. Bldg., Austin, for \$85,000, 4-story, rein. conc., hollow tile and brick, stone trim hotel. 10-3

W. Va., White Sulphur Springs—White Sulphur Springs, Inc., plans 350-room addition to resort hotel and several other buildings; \$2,000,000, fireproof; R. H. Patterson, Conslt. Engr.

Miscellaneous

Ark., Little Rock—J. P. Faucette soon call for bids for drive in community center and market, Willow St. and Broadway, North Little Rock, to be leased to 555 Tire and Service Co., Roy E. Stueber, Pres.; plans include grocery, vegetable and fruit market, ice station, laundry pick-up station, drug store, barber shop, automobile service station; Wittenberg & Deloney, Archts., Home Insurance Bldg.

Fla., Bradenton—Royal Order of Lions, W. A. Rutherford, Dir. Gen., Washington, D. C., plans recreation building several cottages; provide for fishing, boating and other sports; \$20,000.

Fla., Lake Placid—Lake Placid Club, Lake Placid, N. Y., reported, erect 500-room hotel on 3500-acre site, 2 mi. from Lake Placid; plans also include number cottages, clubhouse, yacht basin, facilities for water sports recreational accommodations; also three 18-hole golf course, work on which will be under supervision of J. R. Van Kleek, 97A Newbury St., Boston.

La., Alexandria—Louisiana Hot Wells Co., Burton Lee Mank, V.-P., Gen. Mgr., engaged H. L. Dunaway, Valdosta, Ga., to prepare plans for building program in connection with enlargement of health resort at Hot Wells, 16 mi. from Alexandria; plans include \$250,000 hotel, sanitarium, bath house, bottling plant; conc., stucco and tile, Spanish type; also provide golf course, swimming pool and other amusement features; total expenditure about \$500,000. 10-3

La., Lake Charles—Lake Charles Boat Club, Elmer E. Shutts, Sec., erect build-

ing; Mr. Shutts to prepare plans and superintend construction.

La., Shreveport—L. C. Branch, Chicago, soon let contract for \$18,000, 2-story, 31 x 88 ft., brick and conc. funeral parlor, Hotchkiss and Pierre Sts.; J. P. Annan, Archt., Slattery Bldg.

Miss., Raymond—H. F. Wallace, Dir., Branch Experiment Station, receives bids Nov. 1 for 3-story frame seed house.

Mo., Kansas City—Henry J. Greune and Walter R. Miller, 38 S. Dearborn St., Chicago, promoting erection of Steuben Club building; preliminary plans by Walter W. Ahlschlager, Archt., 65 E. Huron St., Chicago, include club quarters, 800-room hotel, theater, tiers of offices and garage unit.

N. C., Burlington—Employees of North Carolina Public Service Co. purchased site 2½ mi. from Burlington for clubhouse.

Tex., Fort Worth—John J. Hardin, Petroleum Bldg., and Geo. R. Veeder, both Oklahoma City, Okla., have permit to erect \$300,000 Fort Worth Public Market; 100 stalls, conc. and stucco. 10-10

Tex., Fort Worth—Ridglea Country Club, Morris E. Berney, plans \$150,000, 2-story and basement brick and stone clubhouse in Ridglea Addition; H. H. Crane, Archt., 3546 Dorothy Lane.

Va., Norfolk—Princess Anne Country Club will issue \$150,000, 20-year, 6½ per cent bonds for \$95,000 indebtedness and \$55,000 improvements to clubhouse; Peebles & Ferguson, Archts., Law Bldg.

Railway Stations, Sheds, Etc.

Ark., DeQueen—Railway Express Agency erect \$10,000 office building and fruit shed north of station on Kansas City Southern Rwy.

Miss., West Point—Mobile & Ohio R. R., B. A. Wood, Ch. Engr., St. Louis, Mo., erect \$25,000, 32x120 ft., brick and stucco passenger station; Charles H. Hays, St. Louis, Archt. for R. R.; bids in. 10-3

Schools

Ala., Mobile—Spring Hill College, Rev. Jos. M. Walsh, Pres., erect brick library; comp. roof; George B. Rogers, Archt., Van Antwerp Bldg.

Ark., Jonesboro—Agricultural and Mechanical College Bd. of Trustees plans apartment for faculty and student cooperative building.

Ark., Little Rock—School Bd., H. T. Terry, Sec., having plans prepared by William Dill, Boyle Bldg., for \$30,000 Phillip Pfeiffer School in East End.

D. C., Washington—Following contractors estimating on addition and improvements to Park View School, bids Oct. 28: North-Western Construction Co., 6 Madison St., Baltimore; Skinner & Garrett, 1416 F St., N. W.; W. E. Mooney, 2525 Pennsylvania Ave., N. W.; C. Harrison Smith Co., 1518 K St., N. W.; Geo. E. Wyne, 2525 Pennsylvania Ave., N. W.; Robert Colman, Jr., 1472 Ogden St., N. W.; M. A. Long Co., Albee Bldg., all Washington; A. L. Harris, Municipal Archt. 10-17

D. C., Washington—District Commrs., 509 District Bldg., erect \$50,000, 1-story, brick J. Eaton School addition, Cleveland Park; A. L. Harris, Municipal Archt., Dist. Bldg.

Fla., Bronson—Yankeeetown School Dist. plans school; Eugene Knotts, Bronson, in charge.

Ga., Atlanta—Epsilon Chapter of Kappa Alpha Fraternity, Emory University, receives bids Nov. 5 at office Hentz, Adler & Schutze, Archts., Candler Bldg., for \$35,000, 2-story and basement, brick veneer, struc. steel frame fraternity house; comp. and slate roof, tile, hardwood and cement floors; contractors estimating: Permanent Builders, Norris Bldg.; W. P. Francis, 201 Luckie St., N. W.; Christian & Bell, Red Rock Bldg.; H. W. Diver, Silvey Bldg.; J. L. Hiers & Son, 445 Ridgecrest Ave., N. E., all Atlanta; William Alden, Decatur. 10-17

Ga., Decatur—Agnes Scott College, Dr. J. R. McCain, Pres., ready for bids about Nov. 15 for \$250,000 classroom building; rein. conc., brick, hollow tile, slate and built-up roof, Indiana limestone trim, tile and cement floors, steam heat; Edwards & Sayward, Archts., Marietta Bldg., Atlanta. 9-12

Ga., Forsyth—Monroe County voted \$50,000 bonds for high school; \$75,000 available; 2 stories, brick, comp. roof; Dr. T. D. Thurman, Supt. of Schools; Wm. J. J. Chase, Archt., 140 Peachtree St., N. E., Atlanta. 10-3

La., Baton Rouge—Sacred Heart Catholic Church, Rev. D. Biasco, Pastor, has low bid at \$6507 from H. P. Pylant & Son, 934 St. Louis St., for 1-story and basement, 61x52-ft. frame parochial school; Wm. T. Nolan, Archt., Canal Commercial Bk. Bldg., New Orleans. 10-10

La., New Orleans—School Bd., Nicholas Bauer, Supt. of Schools, purchased site on Octavia St. 2 blocks below Fontainebleau Drive for elementary school. 10-10

La., Pioneer—West Carroll Parish School Bd. ready for bids about Nov. 15 for \$50,000, 2-story, rein. conc., brick, stone trim, 10-classroom and auditorium school; built-up comp. roof; Clarence W. King, Archt., Giddens-Lane Bldg., Shreveport. 10-10

Md., Overlea — Baltimore County School Bd., Samuel Shoemaker, Pres., Towson, plans \$150,000, 3-story brick high school. 10-10

Miss., Amory — Bd. of Education, W. C. Abrams, Chmn., soon ready for bids for \$25,000 brick gymnasium building and brick veneer school. 10-10

Miss., Cleveland — Mississippi Building Comsn., W. C. Trotter, Sec., State Capitol Bldg., Jackson, receives bids Nov. 7 for construction sidewalks, drainage and grading at Delta State Teachers College; plans on file at office Mr. Trotter; obtainable from C. H. Lindsey, Archt., Lamar Life Bldg., Jackson. 10-10

Miss., Columbus — Mississippi Building Comsn., W. C. Trotter, Sec., State Capitol Bldg., Jackson, receives bids Nov. 7 for following work at Mississippi State College: Redecorating interior Music Hall; installing fire escape on Main and Hastings Halls; painting metal roofs on certain buildings; construction roads, sidewalks, drainage and grading campus; purchasing drain tile; plans on file at office Mr. Trotter; obtainable from C. H. Lindsey, Archt., Lamar Life Bldg., Jackson. 10-10

Miss., Hattiesburg—Mississippi Building Comsn., W. C. Trotter, Sec., State Capitol Bldg., Jackson, receives bids Nov. 7 for 2-story and basement, 50 x 50 ft., rein. conc. and brick science building at State Teachers College; Vinson B. Smith, Jr., Archt., Bank of Gulfport, Gulfport. 10-10

Miss., Heidelberg—Heidelberg Special Consolidated School Dist. votes Nov. 5 on \$50,000 bonds for brick high school. 9-19

Miss., Summit—Bd. of Education erect building for primary and elementary grades; \$9000 bonds voted. 10-3

Mo., Campbell—Bd. of Education, T. A. Madley, Pres., erect \$70,000, 2-story brick school; Bonsack & Pearce, Inc., Archts., 411 Olive St., St. Louis. 10-10

Mo., Cape Girardeau—State Teachers College, Dr. Joseph A. Serena, Pres., receives bids Nov. 4 for first unit of stadium at Houck Field; \$40,000; seat 7500 people; Jamieson & Spearl, Archts., Arcade Bldg., St. Louis. 7-11

Mo., Columbia — University of Missouri, Glen G. Gegner, Student President, having plans prepared by Jamieson & Spearl, Arcade Bldg., St. Louis, for \$250,000 Memorial Union Bldg.; rein. conc., brick and stone. 10-10

Mo., Hayti—Bd. of Education, R. N. Brasher, Pres., erect \$70,000, 3-story brick high school; Bonsack & Pearce, Inc., Archts., 411 Olive St., St. Louis. 10-10

Mo., Neosho — Bd. of Education, A. J. Bishop, Pres., receives bids Oct. 28 (extended date) for \$70,000 annex to Central High School for Junior High School; separate bids for heating, plumbing, ventilating and electric wiring; plans from Felt, Dunham & Kreihn, Archts., 300 W. 47th St., Kansas City. 10-10

Mo., Springfield—Bd. of Education, A. R. Stewart, Sec., soon ready for bids for following schools: Sunshine School; \$43,000, 1 story and basement, 159x179 ft.; Geo. Reed, Archt., Woodruff Bldg.; Bowerman School; \$136,000, 2 stories and basement, 13 floors; Earl Hawkins, Archt., McDaniel Bldg.; Campbell School, \$120,000, 2 stories and basement, 176x90 ft.; Heckenlively & Mark, Archts., Landers Bldg.; also for alterations and additions to York, Roberson, Rountree, Gulf, Pepperdine and Doling schools; all schools rein. conc., brick, fireproof, stone trim; Wm. B. Ittner, Asso. Archt., Bd. of Education Bldg., St. Louis. 8-8

N. C., High Point—School Bd. considering erecting \$60,000 school in Fourth Ward and school in Second Ward in neighborhood of Five Points. 10-10

Okla., Tonkawa — Bd. of Education reported, erect \$175,000 school on Fifth St. 10-10

S. C., Charleston—College of Charleston, Dr. Harrison Randolph, Pres., erect 3-story building for 9 lecture rooms and laboratory. 10-10

S. C., Columbia — Bd. School Commrs., Frank C. Withers, Chmn., receives bids Oct. 29 for addition to high school; 2 stories, brick, stone trim, comp. roof, steam heat; plans from James B. Urquhart, Archt., Columbia Natl. Bk. Bldg. See Want Section—Building Material Equipment. 6-27

S. C., Greenwood—Bd. of Education, H. L. Watson, Chmn., receives bids Oct. 29 for 2-story and basement, 88x90-ft., 6-classroom addition to grammar school and 2-story and basement, 140x72-ft., 8-classroom and gymnasium addition to high school; \$95,000, rein. conc. and brick, hollow tile, Indiana limestone trim, comp. roofs; Chas. C. Wilson, Archt., Palmetto Bldg., Columbia; J. C. Hemphill, Asso. Archt., Greenwood; following contractors estimating on both schools: J. J. McDevitt Co., Builders Bldg., Charlotte, N. C.; Cox & Hodgins, Emacee Bldg., Greenville; C. Y. Thomason, Greenwood; C. M. Guest & Son, Anderson; H. W. Hamilton, Easley; Jewell-Riddle Co., Sanford, N. C.; Mechanics Construction Co., Carolina Bank Bldg.; J. C. Heslep, Hook Bldg., both Columbia; Southern Builders, Inc., Florence. 10-10

Tenn., Knoxville—Knox County Bd. of Education, W. W. Morriss, Supt., will let contract Nov. 6 for school on Sevierville Pike, 10 mi. from Knoxville. 5-2

Tex., Austin—Bd. of Regents, University of Texas, J. W. Calhoun, Comptroller, receives bids Nov. 9 for \$1,000,000, 4-story and basement, brick and conc. chemistry laboratory; bids as follows: (1) General contract including electrical work; (2) plumbing; (3) heating; (4) laboratory equipment; plans from Herbert M. Greene, La Roche & Dahl, Archts., Builders Construction Bldg., Dallas. 10-10

Tex., Austin—Lutheran Concordia College of Texas, Rev. Henry Studdman, Pres., receives bids Oct. 28 for 2-story, 32x42-ft., rein. conc. and brick building; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg., San Francisco. 10-10

Tex., Bay City — Bay City Ind. School Dist., Robert Baker, Sec., School Bd., votes Oct. 28 on \$175,000 bonds for school improvements; having plans prepared by Harry D. Payne, Kirby Bldg., Houston, for 1-story, 6-classroom high school. 10-17

Tex., College Station—Agricultural and Mechanical College of Texas erect 183-room dormitory. 10-10

Tex., Commerce—East Texas State Teachers' College, Dr. S. A. Whitley, Pres., ready for bids about Nov. 15 for \$200,000, 3-story, brick and rein. conc., fireproof library building; W. E. Ketchum, Archt., Pope Bldg., Austin. 8-29

Tex., Crystal City—School Bd., E. L. Addition, Pres., erect \$66,000 high school; Will N. Noonan Co., Archt., Bldrs. Exchange Bldg., San Antonio; vote soon on \$80,000 bonds. 10-10

Tex., Denton — Bd. of Education, W. T. Doggett, Supt., has low bid at \$23,500 from Denton Construction Co. for 1 and 2-story, 91x138-ft. brick and steel gymnasium at Denton High School; M. C. Kleuser, Archt., Construction Industries Bldg.; Eugene C. Davis, Asso. Archt., Central Bk. Bldg., both Dallas. 10-10

Tex., Denton—College of Industrial Arts, Dr. L. H. Hubbard, Pres., considering erecting dormitory. 10-10

Tex., Texarkana — Texarkana Ind. School Dist. voted \$225,000 bonds; erect \$150,000 high school and improve present structures; Witt, Seibert & Halsey, Archts. 10-10

Tex., Waco—School Bd. selected T. Brooks Pearson, First State Bank Bldg., to draw plans for North Waco School addition. 10-10

Va., Maidens—Virginia Industrial School for boys erect \$25,000 dormitory. 10-10

W. Va., Charleston—Charleston Ind. Dist. Bd. of Education has permit for \$18,497, 26x78-ft., brick, conc., steel and stone, 4-classroom school in Wilson hollow. 10-10

W. Va., Fairmont—Bd. of Education, Union Ind. Dist., Marion County, Victor Shaw, Pres., receives bids Nov. 4 for physical education and science building at Union High School; separate bids for electrical work and heating and plumbing; plans at office Fairmont Industrial Housing Co., Professional Bldg. 10-3

Stores

Ala., Birmingham — Burgher-Phillips Co., 2013 2nd Ave., N., department store, reported, erect 10-story building; first five or six floors for department store, remaining floors offices. 10-10

D. C., Washington—J. B. Higdon, 3110 South Dakota Ave., N. E., has permit for \$45,000, 3-story, brick and stone store and apartment, 2245 Rhode Island Ave., N. E. 10-10

La., Jennings—L. O. Jackson erect \$10,000 1-story, 33x70 ft., brick store on Main St. 10-10

La., Lake Charles—Fred Rollosson, 709 Kirby St., remodel store reported damaged by fire at loss \$10,000. 10-10

La., Shreveport—E. R. Ratcliff receives bids Oct. 29 at office Clarence W. King, Archt., both Giddens Lane Bldg., for \$75,000, 2-story, brick store, 708-10 Texas St.; built-up comp. roof; Page Brothers, Asso. Archts., Austin Natl. Bk. Bldg., Austin, Tex.; Montgomery Ward & Co., Lessee, Chicago. 10-17

Md., Baltimore—G. C. Murphy Co., 537 N. Gay St., has permit for 1-story, 44x116 ft., brick addition to store; \$14,000, steam heat; H. E. Crosby, Archt. 10-10

Mo., St. Joseph—Dr. Chas. G. Geiger, 701 Farson St., plans \$15,000, 1-story brick store, 6107 King Hill Ave. 10-10

Mo., Wellston, St. Louis — Carl E. Etz, Archt., Title Guaranty Bldg., prepared plans for 1-story and basement, 60x100-ft. brick store, Evergreen and Wells Ave. 10-10

Okla., Tulsa — Brown-Dunkin Dry Goods Co., 401 S. Main St., remodel 3-story brick store. 10-10

Tex., Alice—Holmgreen Brothers soon let contract for \$15,000, 1-story, 100x75-ft. brick and rein. conc. store; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 10-10

Tex., Brownsville—Mendoza Estate, Victor Junco, care A. A. Calloway, Archt., Merchants Natl. Bk. Bldg., has low bid at \$21,850, from S. W. McKenzie for 2-story and basement, brick and rein. conc. store and office building; foundation to carry 6 additional stories. 10-17

Tex., Corpus Christi — Corpus Christi Plumbing Co., Inc., Fred A. Nord, Pres., 925 Staples St., erect 1-story, 63x54 ft., brick and tile building on Staples St.; Dielmann & Levy, Archts., State Natl. Bk. Bldg. 10-10

Tex., Corpus Christi—Standard Sanitary Manufacturing Co., Bessemer Bldg., Pittsburgh, Pa., erect 1-story building on Leonard St. for offices, storage house and pipe yard; Dielmann & Levy, Archts., State Natl. Bk. Bldg. 10-10

Tex., Dallas—Parks Friedman Investment Co., Kirby Bldg., has permit for \$25,000, 2-story, brick building, 4134-38 Commerce St. 10-10

Tex., Houston—J. Weingarten, Inc., 1502 Main St., erect \$35,000, 1-story, brick store, 20 and Yale Sts.; Joseph Finger, Archt., Democratic Bldg. 10-10

Va., Norfolk—Diamond Brothers, Inc., 228 Granby St., remodel store, 332 Granby St. 10-10

Theaters

La., New Orleans—Reliance Homestead Assn. has low bid at \$34,870 from Chas. Gibert, Canal Bk. Bldg., for 1-story and balcony, 48 x 30 ft., rein. conc., brick, stucco, fireproof motion picture theater, 1812 St. Roch St.; C. E. Ammen, Archt., 1338 S. Carrollton Ave. 10-10

Mo., Poplar Bluff—Mrs. H. Ferguson plans theater, Broadway and Maple Sts. 10-10

Tex., El Paso — L. M. Crawford expend \$50,000 for improvements to old Crawford Theatre. 10-10

Tex., San Antonio—Publix Theatre Corp., care W. J. Lytle, Pres., San Antonio Amusement Co., 107 E. Houston St., ready for bids about Nov. 15 for \$1,500,000, 5-story, brick, steel, stone, rein. conc., fireproof theater and office building, Travis St. at San Antonio River; Boller Brothers, Archts., 114 W. 10th St., Kansas City, Mo. 5-2

Warehouses

La. Alexandria—Hill, Harris & Co. receives bids Oct. 31 for first unit of 2-story warehouse, office and store; 12,000 ft. floor space, brick and steel, comp. roof, oak floors; E. Leo Ball, Archt., Haas Bldg. 10-10

Tenn., Memphis — Dealers Equipment & Implement Co., R. H. Rust, Mgr., 1434 Riverside St., soon let contract for 1-story, 316x60 ft., corrugated iron warehouse. 10-10

BUILDING CONTRACTS AWARDED

Association and Fraternal

Okla., Ardmore—S. E. Grieder has lathing and plastering contract for \$325,000 Masonic Temple; wiring and elect. work, Cecil Barber; J. B. White & Sons, Archts.-Engrs., W. Main St.; all Ardmore; H. W. Underhill Construction Co., Contr., Braniff Bldg., Oklahoma City. 10-17

Okla., Seminole—Jonah Porter Post No. 204, American Legion, erecting brick and tile clubhouse after plans by C. LeRoy Jones; 2 stories, 25x120 ft., oak floors, 5-ply asphalt roof; owner builds. 10-17

Bank and Office

Miss., Jackson—Guarantee Bond & Mortgage Co. let contract at \$29,875 to W. J. McGee & Son for office bldg., Yazoo and President Sts.; brick, stone trim, 2 stories, 70x120 ft.; Claude H. Lindsley, Archt., Lamar Life Bldg. 10-3

Tenn., Chattanooga—T. W. Morris, Hamilton Natl. Bank Main St. Branch, let contract to W. W. McJunkin, Belvoir Ave., for \$10,000 store and dwelling, Central and Cemetery Aves.; brick, 2 stories, 50x40 ft., conc. floors, comp. roof; work started. 10-17

Tenn., Columbia—Phoenix National Bank remodel and enlarge bldg.; E. D. Lineberger, Archt.; Richardson Lumber Co., Contr. 10-17

Tex., Houston—Rogers Asbestos Co., 107 Buffalo St., has tar and gravel roofing contract for \$250,000 Peden Iron & Steel Co. store and office bldg.; Jas. Ruskin Bailey, Archt., Public Natl. Bk. Bldg.; Don Hall, Contr., Cotton Exchange Bldg. 10-17

Tex., Port Arthur — Merchants National Bank, Austin and Fifth Sts., Geo. H. Craig, Pres., let contract at about \$150,000 to Underwood Contracting Corp., Louisiana Bldg., New Orleans, La., to remodel present bldg. and adjoining structure; 59x100 ft.; install vaults, bronze and marble counters, marble floors, bookkeeping equipment, etc.; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg., New Orleans. 7-11

Churches

Ga., Dahlonega—Methodist Church started work on \$10,000 brick veneer bldg.; J. E. Tallent, Contr. 10-17

Ga., Savannah—Lutheran Church of the Reformation, G. E. Pacettis, Chmn., Bldg. Comm., 1108 E. 49th St., erect 1-story frame bldg., 37th and Reynolds Sts.; Levy & Clarke, Archts., Blun Bldg.; R. W. Ellis, Contr., Arcade Bldg. 10-17

Md., Baltimore—First M. E. Church, 22nd and St. Paul Sts., let contract to B. F. Bennett Building Co., 123 S. Howard St., for recreational and Sunday school bldg. extension; \$100,000, stone, 42x90 ft., flat roof, extend heating plant; Clyde N. & Nelson Friz, Archts., Lexington Bldg. 10-3

N. C., Winston-Salem—Centenary-West End M. E. Church let contract at about \$1,000,000 to James Baird Co., Inc., 101 Park Ave., New York, and Winston-Salem, for church and Sunday school, W. Fifth St.; steel frame, rein. conc. foundation, slate and comp. roof, 2 pipe organs; auditorium seat 1600, Sunday school 2000; furnishings, equipment, etc., \$100,000; Mayers, Murray & Phillip and Bertram Goodhue Associates, both 2 W. 47th St., New York, architects; Walter H. Addison, New York, architects' representative at site; Wiley & Wilson, Heating-Ventilating Engrs., Peoples Natl. Bank Bldg., Lynchburg, Va.; parsonage to be erected after plans by Northrup & O'Brien, Reynolds Bldg. 9-19

Tex., Colorado—Church of Christ let contract at \$19,000 to F. H. Strong for brick, steel and conc. bldg.; 1 story and basement, 50x80 ft., conc. floors and foundation, built-up roof; W. W. Whipkey, Archt.-Engr. 10-10

Tex., Del Rio—Methodist Church let contract at \$61,000 to H. M. Hutchinson for bldg., Pecan and Greenwood Sts.; Spanish type, stucco and orna. stone, hollow tile, T shape, 2 and 3 stories, 110 ft. long; Ralph H. Cameron, Archt., Majestic Bldg. 10-10

Tex., Houston—Rogers Asbestos Co., 107 Buffalo St., has tar and gravel roofing contract for St. Pauls Methodist Church \$750,000 auditorium and Sunday school; Alfred C.

Finn, Archt., Bankers Mtg. Bldg.; Southwestern Construction Co., Contr., West Bldg. 10-17

Tex., New Braunfels—Protestant Episcopal Church let contract to A. C. Moeller for face brick, cast stone, hollow tile and plaster bldg.; 1 story, balcony and basement, 68x87 ft.; Jeremiah Schmidt, Archt. 10-10

Va., Woodstock—Christian Church started work on \$50,000 building.

W. Va., McComas—Methodist Church, J. R. Murphy, Chmn. of Bd., let contract to Pickett Bros., Dubring, to complete bldg.; foundation in; \$13,000.

City and County

Ga., Nahanta — Brantley County Bd. of Commrs. let contract at \$29,286 to Ledsinger & Turner, Brunswick, for courthouse; brick, 2 stories, conc. footings; J. E. Chaffin, Archt., Waycross. 10-3

La., New Orleans—American Seating Co., 308 Perdido St., New Orleans, has seating contract for \$2,000,000 municipal auditorium; refrigerating plant, Wittenmeier Machinery Co., 850 N. Spaulding Ave., Chicago, Ill.; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.; Caldwell Bros. and Bond Bros., Contrs., 816 Howard Ave., both New Orleans. 10-17

Mo., Springfield—Board of Park Commrs., Ira McBride, member, erect \$17,000 administration bldg.; brick, 2 stories; Eugene F. Johnson, Archt., McDaniel Bldg.; W. W. Johnson, Contr., 301 College St. 10-17

Mo., St. Louis—Board of Police Commrs. let contract to E. A. Brunson Construction Co., Railway Exch. Bldg., for \$200,000 Sixth District Police Station, Florissant and Ruskin Aves.; 2 stories, shooting gallery in basement; Mauran, Russell & Crowell, Archts., Chemical Bldg. 10-3

Tenn., St. Elmo, Chattanooga — City of Chattanooga let contract for \$12,000 fire station to Smith Bros., 211 E. Tenth St.; brick, conc. footings, comp. roof; Gordon L. Smith, Archt., Volunteer Life Bldg., both Chattanooga. 10-3

Tex., New Braunfels—City let contract at \$32,339 to Walter Sippel, New Braunfels, for city hall; conc., hollow tile and face brick, cast stone, 1 story and basement; jail in basement; Jeremiah Schmidt, Archt., New Braunfels; Beretta-Stiles Co., Inc., Const. Engr., Contr., Natl. Bk. of Commerce Bldg., San Antonio. 10-10

Tex., San Antonio—City let contract at \$24,343 to John Westerhoff, Milam Bldg., for San Pedro Park branch library; white stone, 1 story, 100x60 ft., red tile roof; Robt. M. & Allee R. Ayers, Archts., Smith-Young Tower; W. E. Simpson & Co., Engrs., Milam Bldg. 10-10

Va., Hopewell—City let contract at \$29,600 to Farmville Manufacturing Co., Farmville, for fire station; Fred A. Bishop, Archt., Times-Dispatch Bldg., Richmond. 9-19

Dwellings

Ala., Birmingham—W. V. Trammell, 2109 N. Fifth Ave., let contract to Paul Bros. Construction Co., 2337 S. 20th Ave., for brick veneer residence; 2 stories, 47x47 ft., comp. roof, steam heat; Jacob E. Sallie, Archt., Empire Bldg. 7-25

Ark., Little Rock—Sam Strauss erect \$20,000 residence, 300 Midland Ave.; J. B. Davis, Contr. 10-17

D. C., Washington—L. E. Breuninger & Sons, Investment Bldg., have permit for 2 dwellings, 7533 Fourteenth St., N. W., and 1365 Iris St., N. W.; brick and stucco and brick, 2 stories; \$14,500; owners build. 10-17

D. C., Washington—Walter Dunigan, 925 15th St., N. W., has permit for 6 brick dwellings, 4215-25 Thirty-seventh St., N. W.; 2 stories; \$60,000; owner builds. 10-17

D. C., Washington—L. E. Breuninger & Sons, Investment Bldg., have permit ready for dwelling, 1350 Juniper St., N. W.; stone and stucco, 2 stories; also for dwelling, 1368 Iris St.; \$27,000; owners build. 10-17

Fla., Canal Point—Southern Sugar Co., 919 N. Michigan Ave., let contract to Crow Bros., Clewiston, for 40 laborers' dwellings, mess hall and commissary. 10-17

Fla., Miami Beach—Bankers Fidelity Investment Co. erect \$25,000 dwelling and garage, 5454 Pine Tree Drive; Paist & Stewart, Archts. 10-17

Fla., Mt. Dora—Leroy C. Smith erect \$10,000 residence; brick, 2 stories and basement, 40x49 ft.; Witman & Royer, Archts., York, Pa.; owner builds, work start about Oct. 28.

Ga., Atlanta — Thos. K. Windham, Inc., Mortgage Guar. Bldg., erect 2 brick veneer dwellings, Morningside; hardwood floors, tile baths, comp. shingle roof; \$16,000; owner builds. 10-17

Ga., Atlanta—C. B. & J. F. Eubanks, 847 Adair Ave., N. E., erect \$10,000 dwelling, 811 E. Morningside Drive, N. E.; brick veneer, 1 story, hardwood floors, tile baths, steam heat; owner builds. 10-17

Ga., Atlanta—Chas. D. Orme, Citizens & Sou. Bk. Bldg., let contract for \$25,000 residence to Norwood Griffin Co., Bona Allen Bldg.; brick veneer, 2 stories and basement, rein. conc. foundation, hardwood floors, Buckingham slate roof, tile baths, struct. steel; Hentz, Adler & Shutze, Archts., Candler Bldg. 8-15

Ga., Atlanta—J. G. Grissim, Inc., Arcade Bldg., erect \$10,000 dwelling, 139 Barksdale Drive, N. E.; brick veneer, 2 stories, hardwood floors, tile baths, comp. shingle roof, hot air heat; owner builds. 10-17

Ga., Atlanta—Mrs. J. H. Anderson, 1624 McLendon Ave., N. E., let contract to Minter-Melton Corp., Southeastern Trust Co. Bldg., for \$10,000 residence; hardwood floors, tile baths, comp. shingle roof, hot air heat. 10-17

Ga., Thomasville — Albert Matthews, care B. F. Goodrich Co., erect stoneware and stucco residence; 2 stories, basement and attic, hardwood floors, tile roof, steam heat; R. Kennon Perry, Archt., Mortgage Guar. Bldg., Atlanta; Ben Butts, Contr., Contr., Thomas-ton. 10-17

La., New Orleans—O. F. Harang, Contr., 5063 Milne St., erect double dwelling, Lesseps and Poland Sts. 10-17

La., New Orleans — A. Thibodaux, 917 Henry Clay, erect double dwelling, Vallette St. near Alix St.; J. L. Foret, Contr., 623 Seguin St. 10-17

La., New Orleans—Azzo Plough, Maritime Bldg., erect \$10,000 residence, 6662 Canal Blvd. near Twigg St.; slate roof; Edw. L. Markel, Contr. 10-17

La., Shreveport—D. R. Hodges let contract at \$19,000 to Gilman McConnell, Ricou-Brewster Bldg., for residence; Jones, Roessle, Olschner & Weiner, Archts., Ardis Bldg. 9-26

Md., Baltimore — Richwood Development Co., 625 Washington Blvd., erect 2 frame dwellings and garages, 2423-25 Everton Rd.; 2 stories, 30x42 ft., slate roofs, hot water heat; F. E. Beall, Archt., 306 St. Paul St.; owner builds. 10-17

Md., Baltimore—D. A. Skinner, 823 Hammond St., let contract at \$18,312 to Amos Schweitzer, 129 Barilla Place, for residence; brick veneer, 2 stories, 13 rooms, rein. conc. foundation; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg. 10-17

Md., Baltimore—Mrs. Edwin Niver, 1014 St. Paul St., erect \$16,000 residence, 29 Warrenton Rd., Guilford; brick, 2½ stories, 56x29.6 ft., slate roof, hot water heat; Laurence Hall Fowler, Archt., 347 N. Charles St.; Edw. A. Cullings, Contr., Highfield and Underwood Rd. 10-17

Md., Baltimore — M. P. Gonnissen, 3810 Hillsdale Rd., erect 3 cinder block dwellings, 324-28 Tipton Rd.; 2 stories, 27x60 ft., slate roofs, hot water heat; \$15,000; Lewis & Westenhaver, Archts., 20 E. Lexington St.; owner builds. 10-17

Md., Baltimore—John L. Tregallas, Inc., 10 E. Fayette St., erect 6 frame dwellings, 6001-09 Burgess St. and 2807 Pinewood Ave.; 1½ stories, 24x30 ft., hot water heat; \$20,000; Bernard Evander, Archt.; owner builds. 10-17

Md., Baltimore—John M. Requaert, Gunther Bldg., let contract to T. V. Morgan, 10 E. Fayette St., for \$35,000 residence, Guilford; brick, 2 stories, 70x50 ft., slate roof; Palmer & Lambdin, Archts., 513 N. Charles St. 9-19

Md., Baltimore—Harry F. Page, Bldr., 304 Hechester St., erect \$11,000 dwelling, Cedarcroft Rr. near Bellona Ave.; 8 rooms. 10-17

Md., Baltimore—Jas. Keely, 3529 Edmondson Ave., erect 22 brick dwellings, 800 block Woodington Ave.; 2 stories; \$72,000; owner builds. 10-17

Md., Baltimore—E. J. McGraw, Bldr., 5002 St. Albans Way, erect stone and clapboard dwelling, St. Albans Way; owner builds. 10-17

Md., Baltimore—Jas. L. Hooper, Bldr., 5533 Gwynn Oak Ave., erect brick dwelling, Goodale Rd.; J. W. Wolcott, Archt., 324 N. Charles St. 10-17

Mo., University City, St. Louis—Dr. J. A. Conzelman, 5947 Julian Ave., let contract to

Berkley Construction Co., 6625 Delmar Blvd., University City, for residence; brick, wood joist, 2 stories, 27.6x45.4 and 47 ft., oak floors, cement block foundation, variegated slate roof; John Warren Teasdale, Archt., First Natl. Life Bldg., St. Louis. 9-19

Mo., University City, St. Louis—N. H. Daniels, 2809 Ivanhoe St., erect \$10,000 duplex, 7031 Tulane Ave.; brick, 2 stories, 27x45.6 ft., conc. foundation, tile roof, steam heat; plan and constr. by owner.

Mo., St. Louis—J. M. Doolittle, 5942 Horton St., let contract to Albert Pauli, 3663 Botanical Ave., for \$18,000 residence; brick, 2 stories, 60x33 and 22 ft., Bruzzelized oak floors, rubble foundation, slate roof; Clarence A. Koenig, Archt., 2036 Russell Blvd. 10-17

Mo., St. Louis—St. Edwards Parish, Rev. T. Lloyd Pastor, 5632 Terry St., erect \$24,000 dwelling, 5626 Maffit St.; brick, 2 stories, 34x95 ft., slate roof; G. B. Willmering, Archt.; 2616 N. Kingshighway; M. S. Lawler, Contr., 5632 Terry.

Okla., Bartlesville—Paul J. McIntyre, 1100 S. Dewey Ave., let contract at \$36,800 to Frank McCollum, 814 S. Dewey, for brick, hollow tile, stucco and half-timber residence; 3 stories and basement, about 40x78 ft., oak floors, slate roof; A. Thomson Thorne, Archt.-Engr., Atco Bldg., Tulsa, and Bartlesville. See Want Section—Building Material and Equipment. 10-17

Okla., Regan—Commissioner of Fisheries, Dept. of Commerce, Washington, D. C., let contract for 2 frame cottages, fisheries station near Reagan, to Quinn-Wicker Co., Ardmore, Okla.; 5 rooms and bath. 8-15

Okla., Tulsa—A. Kasishke, McBirney Bldg., started work on erect \$30,000 residence; stone, stucco and timber, 2 stories and basement, 65x61 ft.; Chas. Dilbeck, Archt., Atlas Life Bldg.; J. E. Stegall, Contr.

Okla., Tulsa—E. S. Akins, Mid-Continent Bldg., erect \$18,000 residence; brick veneer, 2 stories and basement, 58x18 ft.; Harry Clark, Contr.

S. C., Rock Hill—Winthrop College let contract to J. J. McDevitt Co., Builders Bldg., Charlotte, N. C., for \$25,000 residence; brick, cast stone trim, 2 stories and basement, 68x63 ft., Virginia Buckingham slate roof; Edwards & Sayward, Archts.; Robt. B. Logan, Asso. Archt., both 101 Marietta Bldg., Atlanta, Ga. 10-3

Tenn., Knoxville—News-Sentinel will sponsor erection of model dwelling; Barber & McMurry, Archts., Tennessee General Bldg.; H. C. Fonde & Sons, Contrs., 3253 Delwood Drive.

Tex., Austin—Dudley Locke let contract at \$10,929 to Scott Yeamans, 508 West Ave., for brick veneer duplex, 3305 Speedway; 2 stories, 30x50 ft., hardwood floors, interior tile, asbestos shingle roof; Edwin C. Kreisler, Archt., Scarbrough Bldg.

Tex., Brenham—John F. Hoffen erect \$12,000 residence; T. A. Lambright, Contr., Houston.

Tex., Fort Worth—W. M. Loyd erect \$18,000 residence, Simondale Drive, Bellaire; brick veneer, 2 stories and basement, 37x49 ft., oak floors, asbestos shingle roof, tile baths; F. L. Young, Archt., Dallas; C. D. Hart, Contr., 611 Galveston St., Fort Worth.

Tex., Highlands—Harry K. Johnson, Petroleum Bldg., Houston, erecting 15 brick veneer dwellings, San Jacinto St.; Jones & Atkins, Contrs.

Tex., Highlands—R. C. Norris & Bro. erecting number dwellings, Avenue D.

Tex., Houston—S. B. McLanahan, 307 E. Eighth St., started work on \$10,000 Colonial residence, 3305 Palm Ave., Southwood; brick veneer, 2 stories.

Tex., Point Isabel—Geo. M. Husser, 128 Hotel Baltimore, Kansas City, Mo., let contract for \$15,000 residence to A. W. Neck Co., Brownsville, Tex.; tile, brick and stucco, 2 stories, 50x70 ft., cement, Dycrome finish, floors, conc. foundation, Spanish type roof; furnishings, equipment, etc., \$3000; F. H. Trimble, Archt., Merchants Natl. Bk. Bldg., Brownsville. 10-17

Tex., San Antonio—D. A. Skinner, 823 Hammond Ave., let contract at \$18,312, including plumbing, heating and elect. work, to Amos Schweitzer, 129 Barilla St., for brick veneer residence; 2 stories, 32x48 ft., oak floors, rein. conc. pile foundation, asbestos shingle roof; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg.; W. S. Simpson Co., Engr., Milam Bldg. 10-17

Government and State

Md., Salisbury—National Guard let contract at \$28,800 to J. Roland Dashiell to remodel armory. 10-17

Okla., Oklahoma City—State Bd. of Affairs let contract for \$15,000 addition to adjutant general's warehouse, Capitol grounds, to Santa Fe Construction Co.

Tex., Randolph Field, Schertz—Constructing Quartermaster, Capt. A. W. Parker, let contract at \$1,223,000 to Murch Bros. Construction Co., Railway Exch. Bldg., St. Louis, Mo., for 6 barrack bldgs., Air Corps warehouse and quartermaster warehouse as part of \$3,500,000 first unit of \$14,000,000 flying school, Seguin Rd.; one barrack for 300 men, 470 by about 75 ft., and 5 barracks for 250 men each, 368 ft. by about 75 ft.; all masonry walls, stucco, tile roofs, with separate heating plants, kitchens and mess halls; each warehouse 90x485 ft., steel frame, stucco finish, tile roofs. 10-17

Virginia—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract at \$36,000 to Allen Pope, Tower Bldg., Washington, for lightning protection, St. Juliens Creek. 10-10

Hospitals, Sanitariums, Etc.

Mo., Clayton, St. Louis—Missouri Rolling Mill Corp., 6800 Manchester St., has contract for 125 tons rein. steel for \$1,000,000 St. Louis County General Hospital; Aegerter & Bailey, Archt., Railway Exch. Bldg.; Taxis & Becker Consult. Engrs., Chemical Bldg.; E. P. Bradley, Mech. Engr., 4200 Forest Park Blvd.; Hall-Mackay Construction Co., Contr., 625 Locust St., all St. Louis. 9-26

Mo., Sedalia—Geo. Suter, 210 E. Second St., Sedalia, has plumbing and heating contract for \$200,000 city hospital; to call for new bids on elect. work; T. W. Bast, Archt., Kahn Bldg., Sedalia; H. A. Noble, Engr., Security Bldg., Kansas City; Jos. H. Salisbury, Contr., Sedalia. 10-17

Okla., Talihina—Following sub-contracts let on \$100,000 children's ward and power plant, Eastern Oklahoma Tuberculosis Sanatorium; stone, Consolidated Cut Stone Co., 1323 E. Fifth St., Tulsa; brick, State Penitentiary, McAlester; heating and plumbing, M. F. Fischer & Son; painting Reynolds & Son, both Norman; Layton, Hicks & Forsyth, Archts., Braniff Bldg., Oklahoma City; Bailey-Burns Construction Co., Contr., Norman. 10-3

Tex., Houston—City let contract at \$19,000 to B. P. Panas, Esperson Bldg., for nurses' home addition, Jefferson Davis Hospital. 9-26

Tex., Rusk—State Bd. of Control, R. B. Walthall, Chmn., Austin, let contract at \$77,445 to E. B. Snelling, Rusk, for ward bldg., State Hospital for Insane; brick and rein. conc., 2 stories; Page Bros., Archts., Austin Natl. Bk. Bldg., Austin. 10-10

Tex., Wichita Falls—State Bd. of Control, Austin, let contract at \$128,875 to J. E. Morgan, El Paso, for male ward bldg. No. 3 and tuberculosis bldg., Wichita Falls State Hospital; brick, stone and rein. conc. and brick and conc., 2 stories and 1 story, fireproof; Voelcker & Dixon, Archts., Perkins-Snyder Bldg.; plastering Shoop Plastering Co., 35 Lakewood St., both Wichita Falls. Address Contrs.

Va., Clintwood—Dr. R. L. Phipps erecting general hospital; 2 stories, 34 patients' rooms; D. G. Kelley, Contr.

Hotels and Apartments

Ark., Batesville—Petter & McAninch, Inc., Archts.-Bldrs., Pyramid Life Bldg., Little Rock, erect 7-story, fireproof, 75-room hotel, Church St. and College Ave. 9-26

Fla., Miami Beach—Malone Properties, 124 23rd St., let contract to Harrison Construction Co., 500 N. E. 45th St., Miami, for \$12,500, 2-story, 50x50-ft., rein. conc. and conc. block brokers office on Breakers Hotel grounds, 2400 Collins Ave.; Weed & Virrick, Archts., 2620 Biscayne Blvd., Miami.

Fla., Palm Beach—Watt & Sinclair, Contrs., Murray Bldg., erecting two 3-story store and apartment buildings, Hibiscus St. and Worth Ave.; \$100,000; each 140 ft. long, separated by 50-ft. patio.

Ga., Atlanta—James Shepherd, Georgia Savings Bk. Bldg., erect \$40,000, 2-story and basement, 40x90-ft. brick veneer apartment, 16 Seventeenth St., N. E.; comp. roof, steam heat; owner builds.

Ga., Atlanta—Mrs. Alice L. Parks let contract to Minter-Melton Corp., 306 Southeastern Tr. Co. Bldg., for \$17,000, brick veneer, 4-apartment, 904 S. Charles Ave., N. E.; comp. roof, hardwood floors, tiled baths, steam heat.

Mo., St. Louis—N. & E. Bickel, Arlington, has permit for \$10,000, 2-story, 34x54 ft., brick tenement, 2861-63 Arlington St.;

Wright Bros. Construction Co., Archt.-Bldr., 5324 St. Louis St.

Mo., St. Louis—N. X. Schmidt, 928 Filmore St., erect \$10,000, 2-story, 27x51 ft., brick tenement, 3950 Wilmington St.; comp. shingle roof; K. W. Moses, Archt.-Bldr., 3643 Bowen St.

Mo., St. Louis—H. A. Barnett, 808 Chestnut St., ready for sub-bids on \$75,000, 3-story and basement, 60x105-ft., brick, 18-apartment; hardwood and tile floors, slate and comp. roof, terra cotta, cut stone and stucco trim, steam heat; Oliver J. Popp, Archt., Arcade Bldg.; owner builds.

Mo., St. Louis—A. J. Schlather, 2729 La Salle St., remodel and erect 2-story, 20x60-ft. brick addition to store; Edw. J. Gieseler, Archt., DeMenil Bldg.; Ruhaack & Co., Contrs., 2623 Texas Ave.

Mo., St. Louis—Josephine Gausman, care Dower Eddy, Contr., 721 Chestnut St., excavating for two \$12,000, 2-story and basement, 34x45-ft., brick, 4-apartments, 1614-20 Yale Ave.

Mo., University City, St. Louis—Flora B. Boerner, 8931 Olive St. Road, erect two 27x46 ft., 2-family flats, 7108-10 Dartmouth St.; \$20,000; hot water heat; Jack Chapman Building Co., Contr., 5856 Delmar Blvd.; J. W. Wolf, Archt., Big Bend Road.

Okla., Tulsa—Carter T. Davis, Mid-Continent Bldg., started work on \$13,500, 2-story, 43x50 ft. apartment; Wayne Williams, Contr.

Tenn., Memphis—Wm. B. Clark, 1359 Jefferson St., erect \$12,000, 2-story, 36x62 ft., brick veneer, 4-apartment, 821 Maury St.; comp. roof, tile baths, hardwood floors, steam heat; owner, Archt.-Bldr.

Tex., Houston—B. D. Kaufman let contract to M. W. Gilliam, 742 Columbia St., for 1-story, 35x50-ft., brick veneer store and 5-room brick veneer residence, Oxford and 16th Sts.; L. Gabert, Archt., 131 5Bell St. 10-17

Miscellaneous

D. C., Washington—Franciscan Sisters of Atonement, 1400 Quincy St., N. E., erect \$50,000, 2-story brick convent and retreat house, 400 Harwood Road, N. W.; Jeary Johnson Co., Inc., Bldr.

Fla., Miami—Miami Exposition and Amusement Park, Inc., L. D. Llewellyn, Pres., Seybold Bldg., started work on buildings at amusement park, Coral Way Blvd., between 17th St. and 21st Ave., including swimming pool, ball room, open air shell, grand entrance and administration building and concessions; John A. Miller Co., Archts., 8100 E. Jefferson St., Detroit, Mich. 9-12

Tex., Fort Worth—Following sub-contracts awarded on 2 exposition buildings and addition to automobile building for Southwestern Exposition & Fair Stock Show, Coliseum Bldg., for which Thos. S. Byrne Inc., Fort Worth Natl. Bldg., has general contract; Plumbing, Beach Plumbing and Heating Co., 300 S. Main St.; millwork, Steve Sash & Door Co., 100 S. Adams St.; cast stone, Fort Worth Artificial Stone & Staff Co., 1509 N. Lake St.; struc. and rein. steel, orna. iron, Texas Iron & Steel Co., 1401 N. Adams St.; roofing, B. S. Matson, 1016 E. Rio Grande St.; plastering, Fort Worth Plastering Co., 806½ E. 7th St.; brick, Acme Brick Co., Neil P. Anderson Bldg.; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg. 10-10

Tex., Houston—Morse Co., 1203 Milam St., has permit for \$30,000, 2-story, 113x60 ft., brick veneer funeral home, Milam and Drew Sts.; P. H. Fredericks, Contr., 1820 Courtlandt St.; Robert K. Maddrey, Archt., Esperson Bldg.

Railway Stations, Sheds, Etc.

N. C., Shelby—Southern Railway Co., G. L. Sitton, Ch. Engr., M. W. & S. Lines East, Charlotte, let contract to Boyd & Goforth, Builders Bldg., Charlotte, for 40x128 ft., brick, fireproof freight station; tile roof, cement floors.

Schools

La., Monroe—Ouachita Parish School Bd. let contract at \$30,010 to Lee Ellis, Old Central Natl. Bk. Bldg., for 1-story, rein. conc. brick and stone trim annex to Lida Benton School; 6 classrooms, built-up comp. roof; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg. 9-26

Miss., Hickory Flat—School Bd. let contract to T. S. Wiley for athletic building on high school grounds.

Mo., Independence—Bd. of Education, Frank R. Brown, Pres., 911 N. Main St., let contract at \$105,000 to Geo. E. Randall for 3-story, 66x121-ft. brick and stone William Chrisman High School annex; roofing, Modern Roof Co., 3030 E. 18th St., Kansas City; rejected bids for plumbing and heating, new electric, Bessemer Electric Co., Independence; bids Nov. 5: H. Wheelock, Archt., 1229 N. River Blvd., Independence. 1-17

Mo., St. Louis—Bd. of Education, R. M. Milligan, Commr. of School Bldgs., let contract to Brockmeyer & Bohle, Inc., Missouri Theatre Bldg., for improvements and addition to 3-story, 60x67 ft., rein. conc. and brick Simmons School. 10-17

Okl., Miami—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at \$47,415 to H. J. Russell, Miami, for gymnasium and auditorium at Northwestern Junior College.

Okl., Shidler—Bd. of Education, W. C. Morris, Clk., Webb City, let contract at \$38,000 to William Montgomery, Cushing, for 1-story, 120x104-ft. brick high school; asphalt roof, wood floors; A. J. Love & Co., Archts., Atco Bldg. and Loan Bldg., Tulsa. 10-17

Okl., Tishomingo—School Bd. let contract at \$14,715 to H. S. Moore, Ada, for grade school; 1 story, brick; Albert S. Ross, Archt., Ada.

Okl., Weatherford—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at \$14,100 to Holmboe Construction Co., 426 W. Second St., Oklahoma City, for third story to library building at Southwestern State Teachers College. 10-17

Tenn., Alamo—Crockett County Bd. of Education let contract to T. F. Long, Trenton, for \$14,500, 4-classroom and gymnasium high school.

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., let contract at \$62,806 to Rundell & Rich, 107 E. Sixth St., for 2-story dormitory, 1-story ice house and 2-story addition to central kitchen and dining room at Austin State School; all brick, rein. conc., fireproof; H. P. Kuchne, Archt., Littlefield Bldg. 10-10

Tex., Rangerville—Rangerville Ind. School Dist. let contract to Walter F. Chambers, San Benito, for 1-story, brick and tile, 6-classroom and auditorium school; Lloyd E. Mellor, Archt., Harlingen; W. E. Simpson Co., Engr., Milam Bldg., San Antonio. 10-10

W. Va., Harpers Ferry—Harpers Ferry School Dist. Trustees let contract at \$98,000 to Boone, Easton & Wood, L. C. Bldg., Bluefield, for high school and colored school at Harpers Ferry and graded school at Millville; plumbing, \$8450 and heating, \$14,200, J. K. Janney, Charles Town; electric, \$2000, Myers Electrical Co., 331 11th St., Huntington. 6-20

Stores

Fla., Palm Beach—Mrs. Glenn Hodges, care Treanor & Fatio, Archts., Phipps Plaza, started work on \$45,000 store on Worth Ave. to be occupied by Saks & Co.; Millard Lightbown Co., Contr. 9-26

Ga., Athens—Dr. W. L. Moss let contract to C. M. Guest & Son, Anderson, S. C., for improvements to 3-story, 70x240 ft. building to be leased to Gallant-Belk Co.; Fred J. Orr, Archt. 10-10

Ga., Atlanta—H. W. Belfor, 465 Eighth St., N. E., excavating for 2-story, brick and tile store and office building, Peachtree St. near Collier Road, N. E.; tar and gravel roof; owner builds, day labor.

Ga., Atlanta—Frampton E. Ellis, Healey Bldg., erect 1-story, brick store, Spring St. near W. Peachtree Place; tar and gravel roof; owner builds.

La., Alexandria—C. M. Waters, Inc., let contract to Stagg & Waters for \$10,000, 45x96 ft., brick store and Murray St.

Md., Baltimore—George W. Frederick, 115 W. Saratoga St., let contract to Samuel Crowell to remodel first floor of 4-story dwelling, 17 W. Franklin St., and erect 1-story, brick rear addition for salesroom to be leased by Crane Company, 626 W. Pratt St.; \$10,000, limestone front; lessee will redecorate interior.

Mo., St. Louis—M. Bazdaric, 4117 Chippewa St., erect \$14,000, 2-story, 38x56-ft. brick store and tenement, 3800-2 Chippewa St.; asphalt shingle roof, hot air heat; B. Berger, Bldr., 3723 S. Spring St.

Mo., St. Louis—Arsenal-Watson Co., 4249 S. Kingshighway, started work on store and office building, Gravois Ave. and Morgan Ford Road; 2 stores and 4 offices.

Mo., St. Louis—Mrs. Emilie Riley, care Fletcher R. Harris Realty Co., 200 N. Fourth St., let contract to Chas. B. McCormack & Son, Columbia Bldg., for 5-story and basement, 25x127-ft. brick and rein. conc., fireproof store, 409 N. Broadway; work started; Mauran, Russell & Crowell, Archts., Chemical Bldg.; A. G. Spaulding & Bros. Athletic Goods Co., Lessee.

Mo., St. Louis—P. Fixman, Wainwright Bldg., excavating for \$10,000, 1-story, 50x36-ft. brick store, 2516-18 N. 14th St.; Schneider Construction Co., Contr., 1362 Semple Ave.

Mo., University City, St. Louis—Model Investment Co., 3606 Gravois Ave., erect \$16,000, 2-story, 45x60 ft., store and apartment, 7167-75 Delmar Blvd.; slate roof, vapor heat; F. H. Beckelmeier, Contr., 3606 Gravois Ave.; F. G. Avis, Archt., 1021 Big Bend Rd.

Mo., Wellston, St. Louis—R. A. Dubuque Supply Co., 3930 Enright St., erect \$15,000, 2-story brick addition to building, 3960 Duncan Ave.; Arthur J. Widmer & Associates, Archts., 4903 Delmar Blvd.

N. C., Durham—S. H. Kress Co., 114 Fifth Ave., New York, let contract to G. A. Miller, Inc., 312½ Twigg St., Tampa, Fla., for \$200,000, 3 and 4-story store, W. Main and S. Mangum Sts.; ornamental tile and bronze, 53x140 ft. 9-5

N. C., Winston-Salem—Bocock-Stroud Co., 431 N. Trade St., 2-story, 25x100-ft. addition and remodel store; Frank L. Blum & Co., Contrs., 110 E. Second St.

Okl., Oklahoma City—Municipal Securities Co., Tom Green, Pres., erect \$200,000, 6-story, 75x150-ft. building, 714 W. Main St., first unit of 14-story building, to be leased to Haggard Wholesale Furniture Co.; rein. conc., fireproof; Tom Green Construction Co., Contr.

Tex., Houston—Guy L. Blair started work on \$15,000, 1-story, conc. block building, 3401-11 Leeland Ave.; L. L. Reber, Contr., 5005 Blossom St. 10-10

Tex., McAllen—E. E. Phelps started work on \$15,000, 1-story, 50x125-ft. brick store in 1600 block S. Broadway; F. L. Moore, Contr.

Tex., McAllen—Dr. F. E. Osborn erecting \$15,000 store; M. R. Nelson, Contr.; A. E. Woledge, Archt.

Tex., San Antonio—M. L. Oppenheimer, Oppenheimer Bldg., has permit for \$15,000, 104x135-ft., brick and tile store and garage, 1910-14 Broadway; E. F. Kusener, Contr., 739 Riggsby St.

Theaters

Ark., Monticello—J. L. Higgason has contract to repair Amuse-U Theater, recently damaged by fire; probably install equipment for talking pictures.

Tex., Gruver—Cooper Brothers erecting brick theatre; Paschal Bottoms, Contr. Amarillo.

Warehouses

La., Natchitoches—Avoyelles Wholesale Grocery Co., J. E. Efurud, Mgr., let contract at \$11,000 to E. E. Rabalais, Bunkie, for 1-story, 100x80 ft., rein. conc. and brick warehouse to replace structure recently burned; E. Leo Ball, Archt., Alexandria. 10-3

Mo., St. Louis—S. S. Ryan, 713 Chestnut St., erect \$16,000, 1-story, 75x132-ft. brick warehouse, 3400 Lucast St.; Plummer Bros., Bldrs., 1123 Chestnut St.

Mo., St. Louis—Zenith Realty Co., 2915 N. Market St., excavating for \$10,000, 1-story, 28x100-ft. brick warehouse addition; comp. roof; Acme Construction Co., Contr., Railway Exch. Bldg.

N. C., Hickory—L. L. Frye let contract to Q. E. Herman for 2-story, 46x100 ft., steel frame, brick farehouse 12th St. and 11th Ave. to be occupied by Hickory Grocery Co.

Tex., Houston—Pittsburgh Plate Glass Co., 101 Crawford St., erect \$12,000, 1-story, 52x126 ft., brick warehouse addition; Don Hall, Contr., Cotton Exchange Bldg.

RAILROADS PLACING BIG ORDERS

Pennsylvania Buys 310,000 Tons Rails and New York Central 206,430 Tons

Orders have been placed by the Pennsylvania Railroad for a total of 310,000 tons of steel rails, according to a recent announcement, which will involve a cost of \$20,000,000, it is said, including the cost of fastenings and other accessories. The Carnegie Steel Company and the Illinois Steel Company, jointly, received orders for 155,000 tons; the Bethlehem Steel Company for 136,400 tons, and the Inland Steel Company for 18,600 tons. The Pennsylvania Railroad has also ordered 1000 box car bodies from the Bethlehem Steel Company, to be supplied at a cost of approximately \$1,525,000.

The New York Central Lines have placed orders for 206,430 tons, divided as follows: Bethlehem Steel Company, 87,040 tons; Illinois Steel Company, 76,200 tons; Inland Steel Company, 16,930 tons; Carnegie Steel Company, 13,860 tons, and the Dominion Iron and Steel Company, 12,400 tons. Bids are being sought by the Chicago, Burlington & Quincy Railroad Company, it is said, on 20 locomotives and it is understood the Seaboard Air Line Railway will purchase 4 Mikado, 5 switch and 6 Decapod type locomotives.

More Potash Discovered in Texas

The Department of the Interior reports the discovery in Texas of several potash minerals not found in any of the earlier Government tests in that state. The Geological Survey has recently completed analyses of the cores from two test holes, Nos. 11 and 12, drilled by the Bureau of Mines under the potash act. Both holes passed through many beds of polyhalite, as in earlier tests, and some beds of this mineral thick enough and rich enough in potash to have potential commercial value were penetrated. The most interesting feature of the tests, however, was the discovery in the twelfth hole of carnallite, sylvite, langbeinite and kieserite. These minerals have been found in both public and private tests in New Mexico, but thus far only polyhalite has appeared in public tests in Texas. The discovery raises the question, Will further exploration yield commercial quantities of these much desired salts?

The eleventh Government test well (U. S. G. S. Texas No. 8) is in Crane County, about 12 miles southeast of Judkin, on the Texas & Pacific Railway.

Twelfth well (U. S. G. S. Texas No. 9) is on the west side of Winkler County, about 28 miles northwest of Pyote on the Texas & Pacific.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies	Building Materials and Equipment	Bids Asked
Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.	This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.	Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.
<i>Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.</i>		

Machinery and Supplies

Boiler.—Hackley Morrison Co., Inc. (Mchy. Dealer), 204-6 N. Jefferson St., Richmond, Va.—Wants prices and data on 125-h. p., 100 to 125 lb. pressure Scotch or Economic type boiler.

Engine (Corliss).—E. L. Bruce Co., W. W. Partee, Pur. Agt., Memphis, Tenn.—Wants prices and data on 235-h. p., uniflow or 4 valve, non-releasing Corliss engine, 250 r. p. m., to operate on 125 lb. saturated steam, for Reed City (Mich.) plant.

Engine (Diesel).—R. P. Johnson (Mchy. Dealer), Wytheville, Va.—Wants prices and data on used, 50-h. p., Diesel oil engine, Fairbanks, Morse preferred.

Filtration Plant Equipment, etc.—F. P. Joseph, Inc., Conslt. Engr., Glenmora, La.—Wants data and prices on filtering and purification equipment, and auxiliary equipment for purification and filtering plant.

Generator (Engine).—Andrew A. Balto (Conslt. Engr.), 339 N. Grove St., East Orange, N. J.—Wants prices and data on 60-kw. uniflow or equivalent engine generator, a. c., 120 lb. steam.

Road Roller.—R. P. Johnson (Mchy. Dealer), Wytheville, Va.—Wants prices and data on 7 or 8-ton, gas road roller with scarifier attachment, good condition, used.

Woodworking Machinery.—A. E. Helmick, Box 357, Asheville, N. C.—Wants prices and data on new and used woodworking machinery for small shop and for manufacturing furniture and toys.

Alabama Relay Truck Co., 1615-17 Second Ave., South, Birmingham, Ala.—Wants prices and data on used equipment:

- (1) **Air Compressor**—800 cu. ft. capacity, 100 lb. pressure, electric driven, motor 3 phase, 60 cycle, 2300 volt
- (2) **Cars**—10, 20 yd., standard gauge, 2 way, dump
- (3) **Cars (Quarry)**—20, 4 yd., 36-in. gauge, end dump

Clarksville Aviation Corp., Collier W. Goodlett, Pres., Clarksville, Tenn.—Wants prices and data on following for airport:

- (1) **Lighting Equipment**—beacon, etc., standard
- (2) **Tank and Pump**—1000 gal., for water, private supply from well.

East Coast Refrigerating Co., Inc., Box 898, West Palm Beach, Fla.—Wants prices and data on following:

- (1) **Conveyors**—power and gravity for handling standard packages of fruits, produce and vegetables for shipment to Northern markets
- (2) **Engine (Diesel)**—for compressor drive.

Louisiana Hot Wells Co., Burton Lee Mank, V.-Pres. and Gen. Mgr., Alexandria, La., developing health resort—Wants prices and data on following:

- (1) **Bath Tubs, etc.**—specially constructed bath-house tubs and appliances
- (2) **Cold-Storage Plant**
- (3) **Pumps and Tanks**—for water plant.

R. A. Zoeller, 504 N. Calvert St., Baltimore, Md.—Wants prices and data on quart bottles:

- (1) **Boiler (Marine)**—7½ or 8 ft. diam., used, Scotch, allowed 165 lb. pressure by steam boat inspectors, or same type boiler, not over 10 ft. diam., 2-furnace
- (2) **Steamer Hull**—80 to 90 ft., light draft steel.

Miscellaneous

Bottles.—Louisiana Hot Wells Co., Burton Lee Mank, Gen. Mgr., Alexandria, La.—Wants prices and data on quart bottles in carload lots; also on freak or special design bottles.

Gruver Roller Bearing Mfg. Co., Gruver, Tex.—Wants prices and data on following:

- (1) **Castings**
- (2) **Steel (Tool)**
- (3) **Time Clock**—not interested in watchman's clock.

Building Material and Equipment

Louisiana Hot Wells Co., Burton Lee Mank, V.-Pres. and Gen. Mgr., Alexandria, La., developing health resort, wants prices and data on building material for Spanish construction.

A. T. Thorne, Archt., 322 Atco Bldg., Tulsa, Okla., and Bartlesville, Okla., wants prices on following for \$37,000 dwelling, Bartlesville:

Roofing (hip)—asbestos shingle, slate.

Clarksville Aviation Corp., Collier W. Goodlett, Pres., Clarksville, Tenn., wants prices on:

Hangar (airplane)

Dielmann & Levy, Archts., State Natl. Bk. Bldg., Corpus Christi, Tex.—Wants prices on following for store for J. L. Welch and C. J. Tscheidel:

Flooring—hardwood; tiles 6x6, 4x4 and 8x8
Roofing—built-up
Store Fronts
Terra Cotta Trim
Wire Glass
Brass and Bronze work.

James B. Urquhart, Archt., Columbia Natl. Bk. Bldg., Columbia, S. C., wants prices on following for addition to high school, Columbia:

Cast Stone
Flooring—terrazzo, tile
Limestone
Rolling Partitions
Roofing—built-up.

W. L. Hause, Mgr., Community Stores of La., Inc., Ratcliff Bldg., Baton Rouge, La., wants prices on following for \$14,000 store:

Cast Stone
Dumb Waiters
Flooring—tile
Marble
Roofing (flat)—built-up
Steel Sash
Wire Glass.

A. F. Becker, Contr., 129 N. E. First St., Miami, Fla., wants prices on following for \$60,000 cafeteria for Varney's Restaurant, Miami:

Dumb Waiters
Wire Glass.

Bids Asked

Cast Iron Fittings.—See Sewer and Water Works Materials.

Chamois Skins.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 29 for 800 chamois skins, delivery Philadelphia, Pa.

Chlorinated Lime.—Marine Corps, Q. M. Dept., Washington, D. C.—Bid Nov. 1 for 4000 lb. chlorinated lime, delivery Philadelphia, Pa.

Cranes.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids Nov. 13 for 3 electrically operated revolving hammerhead cranes, each having capacity of 5 tons at radius of 95 ft. and 10 tons at 50 ft.

Culvert Pipe.—Comms., Dist. of Columbia, Washington, D. C.—Bid Nov. 1 for 900 ft. corrugated culvert pipe.

Dikes.—Missouri—See Construction News Columns—Miscellaneous Construction.

Dredging.—Hampton Roads, Norfolk, Va. Va.—See Construction News Columns—Drainage, Dredging and Irrigation.

Filter Plant.—See Water Works and Sewers.

Furniture.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 28 for furniture, delivery Hampton Roads, Va.

Furniture, etc.—Building Comm., Office of Sec., W. C. Trotter, State Capitol Bldg., Jackson, Miss.—Bids Nov. 7 for physics

laboratory tables, stools, pedestal chairs, typewriter desks, office desks and Labarc mercury lamp for Dept. of Physics and Astronomy, University of Mississippi.

Furniture, etc.—Bd. of Education, Office of Supt., Wiess Bldg., Beaumont, Tex.—Bids Oct. 29 for furniture and equipment of all kinds for new high school.

Helical Springs (Bed).—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 29 for helical springs, for beds, delivery Philadelphia, Pa.

Levee.—Louisiana—See Construction News Columns—Miscellaneous Construction.

Machine Shop Equipment.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Nov. 5 for motor driven universal milling machines; Nov. 12 for following. Motor driven drill press, coil winding machine, belt driven outside open type molder; Nov. 19 for pantograph type engraving machine, and motor driven double head pipe and nipple threading machine.

Miscellaneous.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Nov. 11 for following, Sch. 2503:

Planing machine, piano, motor truck body, gasoline engine, pumps, scales, ice cream freezers, etc.

Paving.—Independence, La. See Construction News—Roads, Streets, Paving.

Paving.—El Dorado, Ark. See Construction News—Roads, Streets, Paving.

Pig Lead.—See Sewer and Water Works Materials.

Pipe and Fittings.—U. S. Marine Corps, Navy Bldg., Washington, D. C.—Bids Oct. 28 for 2880 ft. 10-in. c. i. bell and spigot pipe and fittings.

Pipe (Galvanized).—See Sewer and Water Works Material.

Pipe (Reinforced Concrete).—See Sewers.

Portland Cement.—See Sewer and Water Works Material.

Pipe (Cast Iron).—See Water Works and Sewers.

Plumbing Supplies.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 28 for plumbing supplies, delivery Parris Island (Port Royal), S. C.

Reinforcing Steel.—See Sewer and Water Works Material.

Road.—Dallas, Tex. See Construction News—Roads, Streets, Paving.

Road.—Oxford, Miss. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—Grayson, Ky. Bids for 2 roads. See Construction Co., Roads, Streets, Paving.

Road Building Equipment.—County Auditor, Wichita County, Wichita Falls, Tex.—Bids Nov. 12 for following:

- (1) **Grader**—12 ft., leaning wheel
- (2) **Maintainer (Power)**
- (3) **Tractors**—1 or more, crawler type, 60 h. p. or more.

Rope.—U. S. Shipping Board, Room 1713, Navy Bldg., Washington, D. C.—Bids Oct. 28 for manila rope for 2 months period with alternate offer for 6 months.

Sewers.—See Water Works and Sewers.

Sewer (Block Segment).—See Sewers.

Sewers.—H. B. Crawford, City Mgr., Columbus, Ga.—Bids Oct. 28 for constructing rein. conc. sewer in Schuesslers Ditch, following quantities: 3126 cu. yds. excavation; refill under sewer; 2635 ft. 78-in. rein. conc. sewer; 104 ft. of 72-in. and 78 ft. of 48-in. conc. pipe sewer; 200 cu. yds. Class A.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Officers for Electrical Manufacturers.

The National Electrical Manufacturers Association, New York, announces the election of Clarence L. Collens, of Cleveland, Ohio, as president for the forthcoming year, succeeding Huntington B. Crouse. Mr. Collens is president of the Reliance Electric and Engineering Company. Vice presidents have been elected as follows: S. L. Nicholson, New York; C. H. Strawbridge, Chicago; W. E. Sprackling, New York; D. R. Bullen, Schenectady, N. Y., and B. F. Raycroft, Philadelphia.

Consolidates 14 Distributors.

The General Electric Supply Corporation (of Delaware) has completed the consolidation of 14 wholesale distributing corporations owned by the General Electric Company, Schenectady, N. Y. The commercial organization will be headed by H. B. Tompkins, general sales manager, with headquarters at Bridgeport, Conn. H. E. Worthington will be general sales representative for the Southeastern states, with headquarters at Atlanta, and W. M. Goodwin for the Southwestern states, with headquarters at Dallas.

Alexander Milburn Sales.

It is understood that a satisfactory volume of sales is being handled by the Alexander Milburn Company, Baltimore, distributors of welding and cutting apparatus, generators and portable lights for the Milburn Sales Corporation, and paint and lacquer spray equipment, compressors and air purifiers for the Milburn Paint Spray Corporation. Alexander F. Jenkins, president and treasurer of the Alexander Milburn Company, recently sailed for England for an indefinite stay.

Two New Municipal Airports.

The Airport Development & Construction Co., Philadelphia, recently served as consultants in making a preliminary layout for a proposed Philadelphia municipal airport at Hog Island, the project being planned to include a marine railway terminal as well as facilities for lighter-than-air and seaplane traffic. A preliminary report on the selection of a site for a municipal airport at Bridgeton, N. J., has also been completed by the company.

Cornstalk Products Company Expands.

New machinery in the enlarged plant at Danville, Ill., of the Cornstalk Products Company has been put in operation, expansion of the plant involving a cost of approximately \$750,000. Said to have no counterpart anywhere, the present plant will have a daily production capacity of 50 to 60 tons of paper-making pulp and 12 to 15 tons of vegetable carbon black for the manufacture of ink, paints and other products.

Diamond Chain Distributors.

The Diamond Chain and Manufacturing Company, Indianapolis, has appointed L. A. Benson & Co., Baltimore, Md., as distributors in the Baltimore district of the Diamond roller chain. Products of the Diamond Company include transmission chains, chain drives, sprocket wheels, etc.

Report of International Cement Corp.

The report of the International Cement Corporation, New York, and subsidiaries, for the third quarter of 1929 shows gross sales of \$10,377,104, as compared with \$9,061,788 for the second quarter and \$7,491,036 for the first. Net profits amounted to \$1,851,198 for the third quarter; \$1,628,126 for the second quarter and \$1,413,846 for the first. Net to surplus amounted to \$1,360,356 for the third quarter; \$1,149,788 for the second and \$1,017,619 for the first, a total for the 9 months of \$3,527,764. Southern subsidiaries of the company include the Lone Star Cement Company Alabama, Birmingham; Lone Star Cement Company, Louisiana, New Orleans; Lone Star Cement Company Texas, Dallas and Houston, and the Lone Star Cement Company Virginia, Inc., Norfolk.

American Rolling Mill Appoints New Vice-President.

The American Rolling Mill Co., Middletown, Ohio, has appointed M. E. Danford, for a number of years works manager of the Middletown division of the company, as vice-president. Coming to the company in 1910 as superintendent of the open-hearth department of the Central Works plant, Mr. Danford helped plan and supervise construction of the open-hearth furnaces at the East Works plant, becoming assistant to the general superintendent of the company upon completion of the latter plant.

Buys Ryerson Line of Machines.

The Ohio Machine Tool Company, Kenton, Ohio, has purchased the complete line of table and floor type horizontal boring, drilling and milling machines of Joseph T. Ryerson & Son, Inc., Chicago, the latter company to retain sole rights as exclusive distributors of the line. Since the Ohio company acquired ownership it has developed plans to expand and improve the line. This concentration of manufacturing responsibility will enable the Ryerson company to center its activities on sales and distribution of the machines.

Gears and Forgings Plant.

A new plant for the Chicago operations of Gears & Forgings, Inc., Cleveland, Ohio, has been established in Chicago, containing two units of between 30,000 and 40,000 square feet of manufacturing space. An addition of approximately 8,000 square feet is already being considered for the new plant which is a part of a general plan of readjustment and expansion of Gears & Forgings, Inc.

Shoe Production Records.

Continuing its high production schedule brought about by the demand for its products, the International Shoe Company, St. Louis, during the week of October 2, surpassed previous production records with a daily average of 200,788 pairs of shoes.

Candy Factory in Jacksonville.

The Lowry Candy Company, Jacksonville, Fla., announces the opening of a new candy factory at 1806 Walnut street, Jacksonville, where it plans to manufacture a line of hard candies.

conc. in special sections; 7000 lbs. of rein. steel in special sections; 600 sq. yds. of 3-in. brick paving in inverts; 25 cu. yds. Class C. conc.; manholes; 48-in. Y branch connections; also receives bids Oct. 28 for construction of sewers in Mile and Cooks Branches, following quantities: 600 cu. yds. excavation; 235 ft. of 42-in. rein. conc. pipe sewer; 436 ft. of 48-in. plain conc. sewer; 436 ft. of 48-in. segment block sewer; 12 ft. of 48-in. transition section; removal of existing and laying 48-in. segment block sewer including 111 ft. of earthwork; G. N. Nitcham, City Engr.

Sewer and Water Works Material.—Town of Jonesboro, Tenn., J. T. Whitlock, Mayor.—Bids Oct. 29 for following material for construction of water and sewer system: 3048 ft. of 8-in., 40,323 ft. of 6-in. B & S pipe, Class B or equal; 132 ft. of 12-in., 60 ft. of 4-in. B & S pipe, Class A or equal; 8 tons c. i. fittings; 15,400 ft. of 1½-in. galv. pipe; 31 steamer hydrants; one 10-in., three 8-in., twenty-one 6-in. and three 4-in. H. E. gate valve & boxes; 32 1½-in. screwed valves and boxes; 45,000 lbs. virgin pig lead; 1400 lbs. of oiled jute; 2000 lbs. dry jute; 500 bbls. Portland cement; 200 tons conc. sand; 375 tons washed gravel or crushed stone; 31,000 lbs. rein. steel; chlorinator; 5430 ft. of 10-in. sewer pipe; 25,000 ft. of 8-in. sewer pipe; sewer pipe fittings; 36,000 lbs. sewer castings; 60,000 all hard common brick; J. B. McCrary Engineering Corp., Construction Mgrs., Atlanta, Ga.

Sewers.—Dist. Commrs., Washington, D. C.—Bids Oct. 29 for 8130 ft. of sewer; information on application Room 509, District Bldg.

Stencil Paper.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 31 for 1250 lb. stencil paper, delivery Philadelphia, Pa.

Tank and Tower.—See Water Works and Sewers.

Tiling.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids Oct. 30 for floor and wainscot tiling at naval hospital, Norfolk, Va.

Vessel.—U. S. Coast Guard, 14th and E St., Washington, D. C.—Bids Nov. 5 for constructing and equipping coast guard cutter No. 53; hull of steel, 250 ft. long, 42 ft. beam, 2000 tons displacement, 15 ft. mean draft, with turbo electric drive, single screw, shaft h. p. 3220.

Water Works and Sewers.—City of Sweetwater, Tex., C. W. Bryan, Mayor.—Bids Oct. 28 for construction complete of following work:

No. 6-1: Sewerage treatment works including settling tanks, Dunbar beds and accessories, also sewerage pumping station.

No. 6-3: Steel elevated storage tank 132 ft. high, capacity 500,000 gal. with alternate on 750,000 gal. complete on foundation.

No. 6-4: 6000 ft. of 14-in. and 2850 ft. of 10-in. c. i. water mains with valves, hydrants fittings and appurtenances; contractor will bid 14-in. line complete with alternate on labor only; city to furnish all c. i. material, on 10-in. line, city must furnish all pipe.

No. 200: 1,000,000 gal. per day extension to present rapid sand mechanical filtration plant in city. Division 1—Filter equipment. Division 2—Structures and interconnecting lines.

No. 201: Earth dam on Bitter Creek with spillway, intake tower and appurtenances, about 620,000 cu. yds., embankment in dam.

No. 202: 2,000,000 gal. per day rapid sand mechanical filtration plant at Bitter Creek dam, pumping plant and pumping machinery. Division 1—Filter equipment. Div. No. 2—structures and lines. Div. No. 2—pumping machinery and connections.

No. 203: Sanitary sewer lines in town consisting of 5280 ft. c. i. sewer mains, 6-in. to 18-in., and 6380 ft. of 18-in., 6000 ft. of 15-in., 6530 ft. of 12-in., 2000 ft. of 10-in., 2330 ft. of 6-in., and 39,000 ft. of 6-in. v. t. sewer, 6 track crossings, 140 ft. tunnel, 86 cu. yds. conc., manholes, cleanouts, etc., city is to furnish all pipe and specials f. o. b. cars Sweetwater; H. N. Roberts & Co., & Hawley & Freese, Associate Conslt. Engrs., Fort Worth Texas.

Water Works.—City of Dayton, Ky. (Br. of Newport) Frank Staab, Clk.—Bids Oct. 28 for installing new distribution system, additions, repairs and alteration of present system; Andrew Lenderink, Conslt. Engr., Kalamazoo, Mich.

Water Works Material.—See Sewer and Water Works Material.

White Way.—City of Bogalusa, La., K. I. Bean, Clk.—Bids Nov. 5 for furnishing materials and complete installation of white way system; H. E. Willis, City Engr.

Southern Metal Trades Association.

With delegates from all sections of the South in attendance, the Southern Metal Trades Association held its eleventh annual convention at Knoxville, Tenn., on October 16-17. The following officers were elected: President, John S. Schofield, president of J. S. Schofield's Sons Co., Macon, Ga.; first vice president, Paul R. Moore, comptroller of the Columbus (Ga.) Iron Works; treasurer, W. G. Meador, president of Gainesville (Ga.) Iron Works; secretary, William E. Dunn, Jr., Atlanta. Mr. Schofield succeeds George B. Cocker of the Cocker Machine & Foundry Co., Gastonia, N. C., and Mr. Meador and Mr. Dunn were re-elected.

Jeffrey Company Adds to Line.

Acquisition of the Bakstad Crusher and Equipment Corporation, Chicago, by the Jeffrey Manufacturing Company, Cleveland, Ohio, rounds out the Jeffrey line of reduction machinery, making it possible, it is announced, for the Jeffrey company to furnish a machine for practically every reduction requirement. The Bakstad 3-jaw crusher will now be manufactured by the Jeffrey company and its sale in Canada handled by the Jeffrey Manufacturing Company, Ltd. J. R. Bakstad has been appointed manager of sales in the Crusher and Pulverizer Division of the Jeffrey company and C. P. Puhl, on the Bakstad sales staff, will handle sales of the Jeffrey-Bakstad units.

Installs Fan Kiln.

The Hibriten Furniture Company, Lenoir, N. C., is installing a dry kiln to season hardwoods. The kiln is said to possess new and improved features including a patented exhaust fan system, a development of engineers of the Moore Dry Kiln Company, Jacksonville, Fla., and North Portland, Oregon, which is making the installation.

Metal Carrier for Auto Tire.

H. C. Davis, Hearne, Tex., has invented an auto tire carrier, to be made of pressed steel or other metal, lined, and possessing heat resisting qualities. Mr. Davis would like to communicate with manufacturers in a position to handle production, no machine work being required.

Truscon Discounts.

New discounts on their steel window and door products have been announced by the Truscon Steel Company, Youngstown, Ohio, reductions being made possible, states the company, by economies in production resulting from standardization and large volume, combined with lower distribution costs.

Trade Literature

Kraft Paper.—In a series of bulletins on the agricultural and industrial South, the Hibernia Bank and Trust Co., New Orleans, devotes bulletin No. 34 to the subject of kraft paper manufacturing. The bulletin states that Louisiana ranks first in the United States in the production of kraft paper and that the abundance of pine throughout the Southern states, particularly in Louisiana, naturally makes the manufacture of kraft a typical Southern industry. Of the 16 kraft mills in the South, 7 are located in Louisiana. The kraft industry in the South represents an investment of approximately \$50,000,000, including large tracts of timber land, and the industry gives employment to about 5,000 men.

Caterpillar Tractors in Industry.—Literature illustrating and describing Caterpillar tractors and their adaptability to various phases of industrial service, has been issued by the Caterpillar Tractor Company, San Leandro, Cal. The booklets have the following titles: Public Service and Utilities; Moving Things; Maneuverability and Non-Slip Traction; Mines, Quarries, Clay Plants; Improving and Maintaining Airports, Etc.; Caterpillar Tractors in the Oil Industry; Who Owns Caterpillars Tractors in Industry? Traction for Manufacturing.

Laclede Fire Brick.—Celebrating its 85th anniversary in the production of Laclede fire brick, the Laclede-Christy Clay Products Co., St. Louis, Mo., is distributing a folder presenting in word and picture some interesting facts about the year 1844, in which the company was established. The enterprise is now capitalized at \$4,000,000 and operates 66 plant buildings and 56 kilns with a daily production of 700 tons.

Marion Steam Excavator.—The Marion Steam Shovel Co., Marion, Ohio, has issued bulletin No. 339 comprehensively describing and illustrating the Marion type 450, 1¼-cubic yard steam excavator, a new machine designed to meet present day needs. With a larger dipper size and efficient operation, the shovel is described as giving a big shovel production at practically no increase in cost.

Carnegie Steel Shapes.—The tenth edition of the Carnegie Shape Book, containing profiles of sections rolled on the structural, bar, plate and rail mills of the Carnegie Steel Company, Pittsburgh, together with tables and other data regarding these products, is being distributed. The book also contains profiles of the new Carnegie beam sections, with complete data describing properties and safe loads.

Industrial Dental Service.—Making a survey of several of the larger companies employing dental dispensaries to safeguard the health of their workers, the Metropolitan Life Insurance Company, New York, through its Policyholders Service Bureau, has published its findings in a booklet which is available upon application to the bureau.

Scales.—Two bulletins recently issued by the Standard Scale & Supply Corporation, Pittsburgh, Pa., illustrate electric and non-electric weighing devices as manufactured by that company. Bulletin No. 20 is devoted to the Standard electric and non-electric dial scale for heavy duty weighing, while another bulletin deals with the Standard Electro-weigh.

Scales.—The American Kron Scale Company, New York, is distributing catalog No. 6, illustrating and describing the Kron automatic springless scale for use in warehouses, factories, for transportation companies and other industrial uses. This scale is described as having proved itself in actual use to embody elements of safety, speed, accuracy and durability, with low cost of maintenance.

Chloride for Treating Coal.—The Solvay Sales Corporation, New York, is distributing a folder describing the use of Solvay calcium chloride for treating coal, this process being capable of rendering coal and coke completely dustless, it is claimed, beside being inexpensive and keeping fuel in a slightly damp and dustless condition for months.

Mine and Industrial Safety.—General catalog No. 4, containing 160 pages devoted to mine and industrial safety appliances, has been issued by the Mine Safety Appliance Company, Pittsburgh.

Motor-Vehicles.—The October issue of the S. A. E. Journal, published by the Society of Automotive Engineers, New York, contains articles of timely interest to the motor-vehicle industry, including such subjects as "When the Car Needs a Fan," "Why Cars Are Better Each Year," etc.

Construction Costs.—Reprinted from the Architectural Forum for August, the Morton C. Tuttle Company, Boston, Mass., is distributing a booklet, "Construction Control by Service Contract," describing in detail the Tuttle system of construction control and pointing out its distinguishing merit.

Louisville Industrial Advantages.—The Louisville Industrial Foundation, Inc., Louisville, Ky., is distributing two booklets, one of which covers the mineral resources of the Louisville district, while the other outlines Louisville's industrial advantages for the operation of metal-products plants.

Coal-Washing.—Bulletin 300, covering coal-washing investigations, methods and tests, has been issued by the Bureau of Mines, Washington. The object of the investigation was to promote the production of better prepared coal and to facilitate the correct selection and design of coal-preparation plants.

Climatic Advantages.—Bearing the title "The Climate of St. Louis," a new booklet is being distributed by the Industrial Bureau of the Industrial Club of St. Louis, which is under the direction of George C. Smith. It is one of a series relating to important factors affecting industrial locations in St. Louis.

Two New Model Lathes.—Bulletins Nos. 9 and 22, illustrating and describing the new model 9-inch regular and 9-inch junior lathes, respectively, have been issued by the South Bend Lathe Works, South Bend, Ind. Each lathe is a back-gear, screw cutting machine, available with desired combinations of several kinds of drive, types of legs, lengths of bed and other features.

Sheet Metal in Fine Buildings.—A pictorial review of a number of fine buildings throughout the country which tells of some of the uses of sheet metal in construction is being distributed by the American Rolling Mills Co., Middletown, Ohio, manufacturers of Armco ingot iron. Southern structures shown, in which the Armco product was used, include the Hibernia Bank Building, New Orleans; First Church of Christ Scientist, Atlanta, and the Corcoran Art Gallery, Washington, D. C.

\$3,150,000 Arkansas Bond Offering

Little Rock, Ark.—Bids will be opened November 19 by the State of Arkansas, Ralph Koonce, treasurer, for the purchase of bonds in the amount of \$3,150,000. Of the total, \$400,000 will be for the use of the state debt board; \$2,000,000 for the pension board and \$750,000 for state construction purposes.

Cotton Textile Institute Elects Officers for Ensuing Year

At the recent annual meeting of the Cotton Textile Institute, Inc., Walker D. Hines, of New York City, was elected president, although it was announced that Mr. Hines would retire from the presidency of the organization next December. Other officials elected included Henry F. Lippitt, Providence, R. I.; T. M. Marchant, Greenville, S. C., vice-presidents; Gerrish H. Milliken, New York City, treasurer; and George A. Sloan, New York City, secretary.

An amendment to the by-laws proposed by Eben E. Whitman of the William Whitman Co., to permit the Institute to engage in political and legislative activities fostering the prevention of the employment of women and children at night was defeated by a vote of 450 to 145. The effort to stop night work in cotton mills was defeated principally on the ground that the elimination of night shifts in Southern cotton mills would throw thousands of workers out of a job.

Members of the executive committee of the Cotton Textile Institute, Inc., include: Harry L. Bailey, New York; J. Whitney Bowen, Fall River, Mass.; R. H. I. Goddard, Providence, R. I.; G. T. Thompson, Adams, Mass.; Robert Amory, Boston; Bertram H. Borden, New York; Charles F. Broughton, New Bedford, Mass.; A. E. Colby, Boston, Mass.; Stuart W. Cramer, Cramerton, N. C.; H. R. Fitzgerald, Danville, Va.; B. B. Gossett, Charlotte, N. C.; George S. Harris, Atlanta, Ga.; John A. Law, Spartanburg, S. C.; Russell H. Leonard, Boston, and Gerrish H. Milliken of New York. Mr. Hines, Senator Lippitt and Mr. Marchant are members ex-officio.

Among the directors elected for three years were:

Robert Amory, Boston Mfg. Company, Boston; Howard Baetjer, Mt. Vernon-Woodberry Mills, Inc., Baltimore; Harry L. Bailey, West Point Mfg. Co., New York; Bertram H. Borden, American Printing Co., New York; Charles F. Broughton, Wamsutta Mills, New Bedford, Mass.; Frank L. Carpenter, Davis Mills, Fall River, Mass.; Alfred E. Colby, Pacific Mills, Boston; Julius W. Cone, Proximity Mfg. Co., Greensboro, N. C.; Stuart W. Cramer, Cramerton Mills, Cramerton, N. C.; George Delano, Bourne Mills, Fall River, Mass.; W. A. Erwin, Erwin Cotton Mills, West Durham, N. C.; J. C. Evins, Clifton Mfg. Co., Clifton, S. C.; H. R. Fitzgerald, Riverside & Dan River Cotton Mills, Danville, Va.; B. E. Geer, Judson Mills, Greenville, S. C.; B. B. Gossett, Chadwick-Hoskins Co., Charlotte, N. C.; George S. Harris, Exposition Cotton Mills, Atlanta, Ga.; John A. Law, Saxon Mills, Spartanburg, S. C.; Russell H. Leonard, Pepperell Mfg. Co., Boston; G. H. Milliken, Dallas Mfg. Co., New York; A. R. Pierce, Pierce Mfg. Co., New Bedford, Mass.; J. J. Scott, Scottdale Mills, Scottdale, Ga.; John Skinner,

Harmony Mills, Cohoes, N. Y.; George E. Spofford, Androscoggin Mills, Augusta, Maine.

\$6,000,000 Rail Line Planned

Polo, Mo.—The construction of double tracks from Polo to Birmingham, Mo., at a cost of approximately \$6,000,000, will be undertaken by the Rock Island Lines and the Chicago, Milwaukee, St. Paul & Pacific Railroad Co., according to H. A. Scandrett, Chicago, president of the latter road. The tracks will be laid jointly by the two companies, both of which now use the Milwaukee right-of-way.

Chain of Filling Stations Planned.

Reedsville, Va.—The Del-Mar-Va Oil Company, Inc., of Reedsville and Richmond, plans to open a chain of stations to extend approximately from Cape Charles, Va., along the main highway of the Virginia Eastern Shore to the Maryland line, and possibly beyond. Included in the company's service will be a full line of oils, gases, greases and a full complement of accessories, including tires.

\$1,000,000 Flood Control Bonds

Dallas, Tex.—Bonds in the amount of \$1,000,000, a portion of a \$6,000,000 issue voted for flood control of the Trinity River at Dallas and the development of property in the valley of the river, are offered by the City and County of Dallas Levee Improvement District, through Halsey, Stuart & Co., Inc., Chicago. The bonds will bear an interest rate of 5½ per cent and will be due serially from 1934 to 1958, inclusive. The total cost of the project will be about \$13,000,000.

\$650,000 Celanese Plant Additions

Cumberland, Md.—The Celanese Corporation of America, New York, has awarded contract to George F. Hazelwood, Cumberland, for the following plant additions at Amcelle, near this city: Textile block No. 3; spinning block No. 3, and solvent recovery building No. 3. These buildings will cost approximately \$650,000 and in connection with the work, the contractor wants quotations on the following materials: Structural steel, steel sash, fire clay building tile, built-up roofing, gypsum roof deck, sheet metal work, lumber, millwork, painting, heating and plumbing, metal toilet partitions, linoleum flooring and metal doors.

Bids will be received until October 31 by the City of Louisville, Ky., for \$500,000 forty-year sewer bonds, bids to be predicated upon an interest rate of 4¼ or 4½ per cent.

Sugar Shipments Boost Brunswick Port

Brunswick, Ga., October 19—[Special.]—Sugar imported here from Cuba by the Hershey Sugar Company, and distributed throughout the Southern territory, has materially increased the activities of this port. Figures compiled by officials of the Atlanta, Birmingham and Coast Railroad, through whose terminals the sugar shipments are handled, show that seven ship cargoes have been received since March of this year, with a total value of approximately \$2,000,000. Duty paid to the Federal Government before the year is out will possibly reach \$1,000,000.

There were 437,000 bags of sugar or approximately 43,700,000 pounds in the seven cargoes, enough to supply a million and a quarter people for an entire year. Sugar manufacturers base this estimate on a per capita yearly consumption of 34 pounds by each person. Per capita consumption of sugar in all forms is 100 pounds a year, according to the government.

Thus has Milton Hershey, "Chocolate King," of Hershey, Pa., and Central Hershey, Cuba, contributed the largest addition to the tonnage of the port, necessitating extensive port improvements and enlarged facilities by the Atlanta, Birmingham and Coast Railroad, made before the first shipload of sugar reached the docks last March.

Foundation Tests for Power Dams

Cotter, Ark.—The White River Hydro-Electric Co., Little Rock, a subsidiary of the Electric Bond & Share Co., New York, will soon start drilling another series of test holes at Wildcat Shoals dam site in White River, near Cotter. After this drilling is completed, the company will have a choice of three foundations for its dam, as two foundation tests have been made, and application is expected to be made before the latter part of May for authority to build the dam. The company holds permits on 10 sites on White River, Buffalo River, Northfork River and Crooked Creek, and with the exception of Northfork River, surveys have been made and most of the foundation tests completed. This is one of the largest projects in the South and Middle West, preliminary work having been in progress since 1920. The construction of the proposed dams is expected to hasten the development of the stone and mineral resources of the White River territory in Arkansas and Missouri, and will also be a factor in flood control on the White River and its tributaries, while the mountain lakes created by the dams will doubtless develop a large summer tourist business.

The Best of Business Building

Business men of today are building better than they know. Apparent enough are their great material expansions, increasing productions, wider service, larger profits. But far less visible, or appreciated even by themselves—because it is not *material*—is the constant building of their *mental* powers—the development of a mind to vision clearly, think orderly, judge fairly, control firmly—a mind to see, to understand and so to be able to express something worth while materially.

Modern Accountancy points with pride to its inevitable service in the building of the *mind* of business. In the simple logic of its Budget, in its Detailed Audit, its orderly control of physical activities, its System in Management—it is a never-ending source of *mental* inspiration to the executive who is giving his life to put the *best he has into the building of a better business.*

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SEATTLE

Petersburg National Park

Details regarding preliminary work under way and plans for the future development of the Petersburg National Military Park at Petersburg, Va., have been outlined by Lieut.-Col. James Blyth, of the War Department and secretary and member of the National Military Park Commission, with offices in the Union Trust and Mortgage Company Building, Petersburg. Established by act of Congress to memorialize the Siege of Petersburg 1864-1865, field work consisting of reconnaissance and surveying, began in January of this year and is now practically complete. In the establishment of the park, it is intended to preserve both the Federal and Confederate siege lines and connect them with a boulevard running around them. When completed, this boulevard will be approximately 21 miles long, 100 feet wide, except where the forts are, where it will be widened to include them, and slightly narrower through swampy land and defiles. A section of the boulevard will be paved with 18 feet of concrete and the remainder with 24 feet of gravel and oil dressed, to be converted later to concrete. All culverts and bridges will be of concrete.

It is estimated that 500 acres of land will be included in the park, and of this the Government already owns 180 acres and is negotiating for the remainder of the area. The breastworks and forts will be cleaned, monumented and decorated with guns of the Civil War period. All work will be done by contract, bids to be invited after Congress has made suitable appropriations. Plans for the park have been prepared and approved by the Secretary of War, with an estimate of cost, and these will be submitted to Congress this fall.

Pays \$3,000,000 for Railroad

Joplin, Mo.—It is announced here that Frank Kell, a cereal manufacturer of Wichita Falls, Tex., has purchased the Missouri and Northern Arkansas Railroad from St. Louis owners, the price approximating \$3,000,000. The road has a 300-mile right-of-way from Joplin to Helena, Ark.

\$2,270,000 Greensboro Notes Sold

Greensboro, N. C.—Two-year notes in the amount of \$2,270,000 have been sold by the City of Greensboro to the North Carolina Bank & Trust Company, of this city, at a premium of \$6600, the notes to bear an interest rate of 5½ per cent. They were sold in anticipation of the sale of a similar amount of bonds authorized earlier in the year, and include two items of \$750,000 and \$500,000 for street crossing elimination; two items of \$150,-

000 and \$125,000 for water works extensions; \$50,000 for street improvement, \$175,000 for street widening, \$30,000 for storm sewers, \$400,000 for a sewage disposal plant, \$65,000 for an incinerator, \$3000 for municipal garage extension, \$16,000 for fire alarm equipment and \$6000 to extend municipal building.

\$8,000,000 for Ozarks Fruit Crop

Reports by the Missouri Pacific, the Frisco and the Missouri and North Arkansas railroads show that to date the great Ozark fruit country has shipped 4,280 cars of strawberries, 640 cars of grapes in addition to 250 cars used by Welch, at its grape juice plant at Springdale, and 265 cars of apples, a total of 5,965 carloads. Allowing 43 feet to the car and 123 cars to the mile, the shipments if placed in one train would cover 48.5 miles of track.

Expressed in money, at actual market prices the Ozark fruit region has received more than \$7,000,000 in revenue from carload shipments alone. Before the season is ended, the total probably will reach \$8,000,000.

Erecting Roller Bearing Plant

Gruver, Tex.—A new plant is being erected here by the Gruver Roller Bearing Manufacturing Co., the first unit to be 50 by 100 feet. Paschal Bottoms, Amarillo, Tex., is the general contractor. Most of the machinery has been purchased from the Huey-Philp Hardware Co., Dallas, including lathes, shapers, milling machines, drill presses, etc. The principal activities of the company will embrace the manufacture of the Gruver reciprocating roller bearing, but as a sideline, it will do a general machine shop and repair business.

Gas Properties Change Hands

Raleigh, N. C.—The Southern Cities Utilities Co., Philadelphia, Pa., which recently sold electric light and power properties in Alabama and Tennessee to the Tennessee Electric Power Company, Chattanooga, has acquired from the Electric Bond & Share Co., New York, gas properties serving this city and Asheville. The Raleigh Gas Company and the Asheville Gas Company have been incorporated as subsidiaries of the purchasing company to own and operate the properties.

An issue of \$500,000 6 per cent short term notes to meet current government expenses has been sold by the State Bond Commission, Jackson, Miss., to the Bankers Trust Company of New York and the First National Bank of Jackson, at par, accrued interest and premium of \$365.

Bids on \$900,000 Veterans' Hospital

Excelsior Springs, Mo.—The U. S. Veterans' Bureau, Washington, D. C., will receive bids until November 12 for the construction of buildings and utilities here for the U. S. Veterans' Hospital, the work to include roads, walks, drainage, and wrecking the residence of the medical officer in charge. The cost of the project will be about \$900,000 and the following contractors are estimating on general construction: W. D. Lovell; Peterson-Colwell, Inc., both of Minneapolis, Minn.; J. P. Cullen & Sons, Janesville, Wis.; Ernest Rockahr & Sons, Lincoln, Neb.; Virginia Engineering Co., Inc., Newport News, Va.; Sumner-Sollitt Co., N. P. Severin Co., both Chicago, Ill.; Murch Bros. Construction Co., Hiram Lloyd Building & Construction Co. and Dickie Construction Co., all St. Louis; Algernon Blair and A. C. Samford, both of Montgomery, Ala.; Peter Kilwits Sons and V. Ray Gould Co., both of Omaha, Neb. and W. P. Rose Co., Goldsboro, N. C.

Contractors estimating on elevators include: Kerschner Elevator Co., Toledo, Ohio; Kimball Bros. Co., Council Bluffs, Iowa; Montgomery Elevator Co., Moline, Ill.; Haughton Elevator & Machine Co., Washington, D. C.; Washington branch of Otis Elevator Co., New York, and the Warner Elevator Co., Cincinnati, Ohio. The following companies are estimating on refrigerating machinery: Pyles Refrigeration Engineering Co., Baltimore, Md.; Vilter Manufacturing Co., Milwaukee, Wis.; Philadelphia branch of York Ice Machinery Co., York Pa., and the Washington branch of Frick Company, Inc., Waynesboro, Pa. Ray A. Phelps, Beloit, Wis., is estimating on electrical work, and the Permutit Co., New York, and the Graver Corporation, East Chicago, Ind., on water softening machinery. The Kewanee Boiler Corporation, Kewanee, Ill., is also bidding on equipment.

Brake Lining Companies Merge

Charlotte, N. C.—About 90 per cent of the outstanding stock of the Southern Asbestos Company, of this city, has been deposited according to a plan of merger with the Thermoid Company, of Trenton, N. J., it is announced, the board of directors of both companies having declared the plan operative. It is understood that 4½ shares of the 7 per cent cumulative convertible preferred stock of the latter company will be exchanged for 10 shares of Southern Asbestos common stock to effect the merger. The consolidation of the two companies will make the organization one of the largest brake-lining manufacturers in the industry.

BRIXMENT *reduces* the cost of brickwork

ONE part BRIXMENT, three parts sand makes economical mortar because: BRIXMENT itself costs less than the portland cement and lime needed to make an equal amount of mortar. It is economical to mix because no soaking or slaking is necessary and can be mixed in any quantity by hand or by machine. It can be retempered after standing in the box for a few hours.

BRIXMENT mortar saves bricklayer's time because it is easy to spread and, when the bricklayer throws up a head-joint, it sticks to the brick. No time is lost by bricklayers waiting for mortar, because BRIXMENT is ready to mix and use as soon as delivered. Its convenient set helps the bricklayer in striking joints . . . When BRIXMENT is used, it costs less to clean down the wall. Louisville Cement Company, Incorporated, Louisville, Kentucky.

District Sales Offices: 1610 Builders Bldg., Chicago; 301 Rose Bldg., Cleveland; 602 Murphy Bldg., Detroit; 101 Park Ave., New York

BRIXMENT *for Mortar and Stucco*

The saving due to the plasticity of BRIXMENT mortar is especially noticeable in laying up soldier courses and arches and in setting tile and blocks because of the long cross-joint used in such work.



FINANCIAL NEWS

Bond Issues Proposed

Ala., Tuscaloosa—Tuscaloosa County Bd. of Revenue receives bids soon for \$217,000 road bonds.

Ark., Little Rock—School—State, Ralph Koonce, Treas., receives bids Nov. 19 for \$500,000 5% coupon bonds.

Ark., Little Rock—State Debt Bd., Pension Bd. and State Construction Comm., Ralph Koonce, State Treas., receive bids Nov. 15 for \$400,000 for revolving loan fund, \$2,000,000 pension bonds and \$750,000 state construction bonds.

Ark., Fort Smith—City votes Dec. 2 on \$279,000 bonds: \$100,000 fire dept. equipment; \$25,000, buildings; \$100,000, street; \$54,000, sewer; W. L. Winters, Engr. 10-17

Fla., Bartow—Refunding—City, Geo. J. McNamee, Clk., receives bids Nov. 8 for \$95,000, 6%, \$1,000 denom. bonds. 10-3

Fla., Bradenton—Manatee County Commrs., Robt. H. Roesch, Clk., did not sell \$170,000 6% \$1000 denom. county building refunding bonds. Lately noted bids opened Oct. 7. 9-26

Fla., Miami—City Comm., C. H. Reeder, Mayor, authorized issuance of \$213,000 refunding bonds to cancel obligations due in Nov. and Dec.

Fla., Orlando—City, J. A. Stinson, Clk., receives bids Oct. 30 for \$45,000, 5%, \$1,000 denom. bonds, for paving, sewer and sidewalk improvement.

Fla., West Palm Beach—Circuit Court validated \$1,265,000 bonds for South Florida Conservancy Dist., formerly old Palm Beach Drainage and Highway Dist., J. B. Jeffries, Pres.

Ga., Columbus—City Comm., Henry B. Crawford, City Mgr., receives bids Oct. 28 for \$350,000 of \$1,235,000 bonds voted in May: \$125,000, school; \$100,000, street; \$30,000, municipal buildings; \$95,000, sewer.

Ky., Louisville—Sewer—City, Wm. B. Harrison, Mayor, receives bids Oct. 31 for \$500,000, 4½ or 4¼% of \$5,000,000 bonds. 9-26

La., Columbia—Road—Caldwell Parish Road Dist. No. 1 votes Oct. 31 on \$45,000 bonds.

La., New Orleans—Orleans Parish School Bd. receives bids Nov. 6 for \$3,000,000 bonds.

La., Oak Grove—West Carroll Parish School Bd., R. A. Everett, Pres., receives bids Nov. 12 for \$40,000, not to exceed 6% Pioneer School Dist. No. 4 bonds.

La., Opelousas—Drainage—Bd. of Commrs., Bayou Plaquemine Gravity Drainage Dist. No. 12, Garland L. DeJean, Pres., receives bids Oct. 26 for \$37,500 Gravity Sub-Drainage Dist. No. 1 bonds and \$37,500 Gravity Sub-Drainage Dist. No. 2 bonds.

La., St. Martinville—Town votes Nov. 14 on \$18,000 6% bonds to rehabilitate light and water plants; also \$20,000 6% bonds to purchase building and construct water treatment and filtration plant.

Miss., Ashland—Road—Benton County receiving bids for \$12,500 bonds.

Miss., Bay Springs—School—Jasper County voted \$20,000 bonds.

Miss., Hattiesburg—City votes Nov. 5 on \$400,000 bonds: \$300,000, water; \$100,000, sewer.

Miss., Heidelberg—Heidelberg Special Consolidated School Dist., Jasper County, votes Nov. 5 on \$50,000 bonds.

Miss., Iuka—Courthouse—Tishomingo County votes Nov. 2 on \$125,000 bonds. 10-3

Miss., Summit—School—City voted \$9000 bonds. 10-3

Mo., Belton—City votes Nov. 15 on \$97,000 bonds for water and sewerage system.

Mo., Independence—Road—Jackson County plans selling, soon, \$1,500,000 bonds.

N. C., Canton—Beaverdam Township School Dist., Haywood County, A. J. Hutchins, Supt. of Schools, plans selling soon, \$260,000, 5% bonds. 10-17

N. C., Raleigh—Street—City Commrs., J. E. Sawyer, Clk., authorized \$100,000 bond issue.

Okla., Ada—City votes Oct. 29 on \$60,000 bonds for municipal airport, market square and parks combined.

Okla., Asher—Sewer—City, Roy Black, Clk., did not sell \$40,000 not to exceed 6% bonds. 10-17

Okla., Miami—Airport—City, W. L. Rush, Mayor, considering \$100,000 bond election.

Okla., Oklahoma City—Oklahoma County will issue \$125,000 funding bonds.

Okla., Oklahoma City—Herbert C. Heller & Co., Inc., New York, offering \$500,000, City of Oklahoma 6% street bonds; previously sold.

S. C., Barnwell—Highway—Barnwell County Directors, Perry B. Bush, Clk., receive bids Oct. 31 for \$124,000, \$1000 denom. not to exceed 5½% bonds.

S. C., Columbia—City, G. F. Cooper, Clk., receives bids Oct. 29 for \$65,000, \$1,000 denom. assessment bonds.

Tenn., Bristol—Street—City, W. K. Carson, Treas., voted \$20,000 bonds. 10-10

Tenn., Elizabethton—Carter County, J. B. Deal, County Clk., did not sell \$623,500 6% bonds: \$498,500, road; \$25,000, jail; lately noted bids Oct. 7.

Tenn., Fayetteville—Lincoln County Court, Boone Moore, Clk., receives bids Nov. 2 for \$40,000, 5½%, \$1,000 denom. refunding and improvement notes.

Tex., Angleton—City votes Nov. 16 on \$32,000 bonds for sewer system and disposal plant. 10-10

Tex., Austin—City, Geo. G. Grant, Dir. of Finance, will not sell \$1,500,000 bonds before 1930. Lately noted to sell about Oct. 20. 10-10

Tex., Beeville—Bee County votes late in Nov. on \$160,000 bonds: \$150,000, repair bridges and build drainage structures; \$10,000, purchase right of way. 9-5

Tex., Brownsville—Road—Cameron County, Oscar C. Dancy, County Judge, considering selling \$6,000,000 Series "E" bonds in Dec. or Jan.

Tex., Corpus Christi—Road—Nueces County Commrs. Court, Roy D. Clift, Clk., called election for Nov. 9 on \$2,500,000 bonds.

Tex., Crystal City—School—City votes soon on \$80,000 bonds; E. L. Addison, Pres. School Bd.

Tex., Dallas—Halsey, Stuart & Co., Inc., Chicago, Ill., offering \$1,000,000 5½% Dallas City and County levee improvement Dist. bonds; previously sold.

Tex., Fort Worth—City Council, O. E. Carr, City Mgr., considering selling soon, \$800,000 of \$1,400,000 bonds: \$250,000, fire alarm signal station, and site; \$250,000, bridge; \$150,000, airport improvement; \$150,000, city-Texas and Pacific R. R.; D. L. Lewis, City Engr. 7-4

Tex., Galveston—City, Jack E. Pearce, Mayor, plans selling \$800,000 of \$2,000,000 school bonds, voted May 14. 5-23

Tex., Harlingen—City considering \$500,000 to \$1,000,000 bond election for home states building at fair grounds, golf course, abattoir, incinerator, paving, sewage disposal plant, sewer extension, swimming pool, etc.

Tex., Houston—City Council approved ordinance granting Comptroller Giles authority to issue \$500,000 4½% special improvement bonds to defray cost of work on \$7,000,000 Southern Pacific passenger station; \$250,000, straighten Buffalo Bayou; \$110,000, Houston Ave. underpass; \$63,000, Milam-White Oak Drive underpass; \$73,000, Kessler St.; will sell bonds to local bankers.

Tex., Kingsville—Road—Kleberg County considering bond election.

Tex., Laredo—School—City, A. R. Garcia, Sec., receives bids Nov. 19 for \$225,000, 5%, \$1,000 denom. Independent School Dist. bonds. 6-27

Tex., Longview—City votes Nov. 12 on \$140,000 bonds: \$55,000, water; \$15,000, sewerage; \$70,000, streets.

Tex., Palo Pinto—Road—Palo Pinto County defeated \$1,750,000 bond issue: \$829,000, retire outstanding bonds against Road Dist. No. 1; \$921,000, improve or build roads. 9-26

Tex., Port Arthur—City Comm., may call election, No. 26, tentative date, on \$3,300,000 bonds: \$2,000,000, seawall; \$575,000, street and bridges; \$280,000, drainage; \$300,000, pleasure pier, \$30,000, park improvement; \$115,000, water and sewer extension. 10-10

Tex., San Antonio—City, C. M. Chambers, Mayor, probably call election soon on \$10,000,000 improvement bonds.

Tex., Texarkana—Texarkana Independent School Dist. voted \$225,000 bonds. 10-3

Tex., Tyler—Smith County Commrs. plan calling election Nov. 14 on \$200,000 bonds, to erect and equip county hospital; Will D. Pace, County Judge. 9-26

Va., Virginia Beach—Street—Town, Charles E. Barco, Mayor, considering \$50,000 bond issue.

W. Va., Elkins—City votes Nov. 26 on \$135,000 municipal light and power bonds. 8-29

Bond Issues Sold

Ala., Alabama City—School—City, L. H. Herndon, Clk., sold \$100,000 bonds to General Securities Corp., Birmingham. 7-25

Ala., Birmingham—Public Improvement—City Comm. sold \$320,000 5¼% bonds to Stephens & Co., New York, \$1033 premium. 9-26

Ala., Mobile—School—Mobile County Bd. of Revenue, E. C. Doody, Clk., sold \$100,000 of \$500,000 bonds, previously voted, to Mobile National Bank, 97.92. 10-10

Ark., Jonesboro—City sold \$9000 to \$10,000 paving bonds to M. P. Welsh at 97½.

Ark., Little Rock—City sold \$565,000 bonds to Halsey, Stuart & Co., Chicago, par, accrued interest and \$11,152 premium: \$200,000, municipal airport; \$300,000, fire fighting equipment; \$55,000, annex and equipment for General Hospital. 9-28

Ark., Marianna—Paving—City sold \$180,000 6% bonds to combination of financial institutions comprising Lee County National Bank, Bank of Marianna, both Marianna; M. W. Elkins & Co. and American Southern Trust Co., both Little Rock.

Florida—Florida Inland Navigation Dist., East Coast Canal, Chas. F. Burgman, Chmn., Daytona Beach, sold \$825,000 5% bonds to Florida East Coast Canal & Transportation Co., St. Augustine, and \$125,000 bonds to group of small investors, represented by George Moody, Flagler Beach. 8-22

La., Bogalusa—City sold \$250,000 5% paving bonds at par to First State Bank & Trust Co., Washington Bank & Trust Co., City Bank & Trust Co., all Bogalusa, each buying one-third; lately noted rejected bids. 10-10

Miss., Hazlehurst—Tigrett & Co., Memphis, Tenn., reported, purchased \$85,700, 6% paving bonds, at \$200 premium, and expenses.

Miss., Jackson -- Hinds County Bd. of Supvrs., W. W. Downing, Clk., sold \$200,000, 5¼% bonds to Commerce Securities Co., Memphis, Tenn., at \$1685 premium; purchase property to build county courthouse and jail. 9-26, under Miss., Raymond.

Miss., Jackson—State Bond Comm., Webb Walley, State Treas., sold \$500,000 6% short term notes, at par, accrued interest and \$365 premium, to Bankers' Trust Co., New York, and First National Bank, Jackson; Theo. G. Bilbo, Governor. 10-10

Mo., Maplewood—School—City sold \$158,000, 5% coupon bonds to Mississippi Valley Trust Co., St. Louis.

N. C., Danbury—School—Stokes County Commrs. sold \$40,000, 5¼% coupon bonds to Braun, Bosworth & Co., Toledo, at par. 9-26

N. C., Greensboro—City Council, P. C. Painter, City Mgr., sold \$2,270,000 5¼% bond anticipation notes to North Carolina Bank & Trust Co., Greensboro, at \$3609 premium and accrued interest. 10-10

Tenn., Hartsville—Bridge—Troupdale County, James Stalcup, County Court Clk., sold \$40,000, 5½% bonds to J. C. Bradford & Co., Nashville, \$455 premium. 9-26

Tenn., Murfreesboro—City, W. M. Draper, Recorder, sold \$300,000 5% \$1,000 denom. bonds to First National Bank, Murfreesboro Bank & Trust Co. and Commerce-Union Bank, all Murfreesboro, par and accrued interest: \$50,000, improvement; \$250,000, water. 10-10

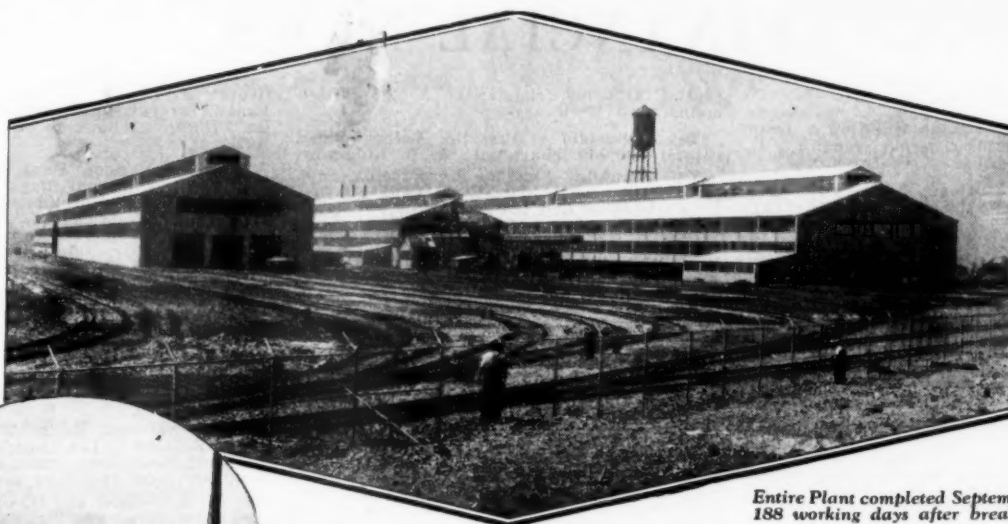
Tenn., Trenton—Road—Gibson County, E. C. House, County Court Clk., sold \$400,000 4¼% bonds to Caldwell & Co., Nashville, and Joseph, Hutton & Estes at \$6000 premium. 9-26

Tex., Bellville—Sewer—City, Wm. Schneider, Sec., sold \$45,000, 6% coupon bonds, jointly, to First National Bank and Austin County State Bank, both Bellville, at par. 9-19

Building and Loan Associations

Tenn., Bristol—Holston Small Loan Co., 12 N. Sixth St., capital \$500,000, organized: W. A. Hiddleston, Pres.; considering opening additional office in Kingsport, Tenn.

(Continued on page 96)



Entire Plant completed September 19, 1929
188 working days after breaking ground



Ground Broken for Construction
February 14, 1929

Pullman Shops

at Bessemer

Built in 188 working days

Complete freight car plant with Sixteen Buildings
containing 418,000 square feet of space
constructed in record time.

THE new plant at Bessemer, Alabama, for the Pullman Car & Manufacturing Corporation is just being placed in operation. In a short time 25 freight and refrigerator cars will be built every day in the interests of serving the railroads of the south.

In January the site—with depressed tracks and pits, old coke ovens and slag dumps—was occupied by the old blast furnaces of the Tennessee Coal, Iron and Railroad Company.

On February 14th "ground" was broken for construction, and on September 19th construction work was completed—188 working days after the first excavation.

In view of the character of the site—158,000 yards of grading being required—and the extended

nature of the operations—the whole site is 100 acres and one of the shop buildings is nearly 1,500 feet long—188 working days is considered an unusually creditable speed performance.

We executed both design and construction, carrying along the construction as the plans were developed. The work was done in full cooperation with and under the direction of the organization of the Pullman Car & Manufacturing Corporation, Mr. C. A. Liddle, President; Mr. W. N. Oehm, Manager of Works; Mr. F. O. Reemer, Southern Representative.

We offer to railroad and industrial companies the experience of specialists in the design and construction of shops; passenger, locomotive and freight terminals; power plants; factories; office and monumental buildings.

Important Facts about Pullman Shops

The plant contains three main groups of buildings as follows:

1. Steel Shop Group with a Steel Fabricating & Erecting Shop 102 ft. by 1,464 ft., a Machine, Forge, Wheel & Truck Shop, 90 ft. by 600 ft. and various small buildings.

2. Wood Shop Group with Lumber Storage Shed, Canopy, Work Shops, etc.

3. Paint Shop Group with Paint Shop and Mixing Bldg. There are also several office and auxiliary buildings.

The buildings contain 418,000 sq. ft. of floor area.

1,000 men were employed.

3,800 tons of steel were used.

175,000 sq. ft. of sash.

580,000 sq. ft. of siding and roofing.

8 miles of track.

188 working days required for construction.

The average service with United Engineers & Constructors, Inc., of the Construction Superintendent and his principal assistants on the work exceeds 10 years.

UNITED ENGINEERS & CONSTRUCTORS

INCORPORATED

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CHICAGO
MONTREAL

MAXIMUM RETURN TO CLIENTS PER DOLLAR INVESTED

FINANCIAL NEWS

(Continued from page 94)

Tex., De Kalb—De Kalb Building & Loan Assn., capital \$250,000, chartered; C. C. Crump, E. E. Bearden, C. C. Proctor.

Va., Staunton—Home Building & Loan Assn., Inc., capital \$100,000, chartered; Taylor McCoy, Pres.

New Financial Corporations

Ala., East Gadsden, Gadsden—East Gadsden Bank, capital \$25,000, opened; James L. Herring, Pres., Gadsden.

Fla., Cocoa—Barnett National Bank of Cocoa, capital \$50,000, organized; Don M. Barnett, Pres.; C. J. Joiner, V. P.; H. G. McCallister, Asst. Cashier; branch of Barnett National Bank of Jacksonville; probably open about Nov. 1.

Fla., Winter Haven—American National Bank in Winter Haven, capital \$100,000, chartered; Norman A. Street, Pres.; W. D. Gray, Cashier.

Ky., Louisville—Phoenix Investment Co., capital \$20,000, chartered; Joseph and J. D. Burge, Blakey Helm.

Ky., Louisville—Bank of Kentucky, capital \$4,000,000, chartered; John S. Akers, 130 N. Hite St.; H. J. Angemeier, 1516 Cherokee Rd.

Tex., Houston—Battelstein Investment Co.,

capital \$150,000, chartered; A. M. Battelstein, 2113 Wichita St.

Tex., Presidio—Presidio Valley Bank, capital \$20,000, chartered; R. B. Ridgeway.

Va., Franklin—Vaughan Corporation, capital \$100,000, chartered; C. C. Vaughan, 3rd, Pres.; banking and trust company.

Va., Richmond—Mason-Hagan, Inc., capital \$1,000,000, formed; John C. Hagan, Jr., Pres., 1905 Stuart Ave., Richmond; affiliated with Chemical Bank & Trust Co.

Citizens National Bank, M. F. Graham, Pres., and Union National Bank, C. L. McMahon, Pres., both Okmulgee, Okla., consolidated into institution in which Southwest Corporation, organized by Exchange National Bank of Tulsa, Harry H. Rogers, Pres., will have controlling interest; \$3,500,000 resources.

Citizens State Bank, J. W. Beason, Pres., and Farmers Bank, W. F. Aven, Pres., both Fair Play, Mo., consolidated as Citizens State Bank of Fair Play, with total resources about \$350,000; J. E. Beason, Pres.

First National Bank Group, S. A. Phillips, V. P., Louisville, Ky., purchased Madison National Bank & Trust Co., Waller Bennett, Pres., Richmond, Ky.

Fulton National Bank, R. G. Clay, Pres., purchased Peachtree Road Commercial Bank,

George B. Donaldson, Pres., Peachtree and Pace's Ferry road, Buckhead, both Atlanta, Ga.; Buckhead Bank to be branch of Fulton National.


Guaranty National Bank, J. D. Dyer, Pres., and Public National Bank and Trust Co., Houston, Tex., consolidated as Public National Bank & Trust Co., Main and Preston St.; \$800,000 combined capital, \$400,000 surplus and profits; Jules H. Tallichett, Chmn. of Bd.; Carter Stewart, Pres.

North Texas National Bank, E. S. Owens, Pres., and Republic Natl. Bk. & Tr. Co., W. O. Connor, Chmn. of Bd., both Dallas, Tex., consolidated as Republic National Bank & Trust Co., with \$6,500,000 capital, surplus and profits, and over \$60,000,000 resources; Everett S. Owens, Chmn. of Executive Committee.

State National Bank, W. R. Daimwood, Pres., Robstown, Tex., purchased First State Bank, P. Welhausen, Pres., Agua Dulce, Tex., \$900,000 total combined assets.

Stone & Webster and Blodgett, Inc., Investment Bankers, 120 Broadway, New York City, opened branch office in Keyser Bldg., Baltimore, Md. with Lewis R. Lemke, Mgr.; subsidiary of Stone & Webster Co., Inc.

Union Trust Co., John M. Dennis, Pres., and National Bank of Baltimore, Jno. Schenewolf, Pres., both Baltimore, considering merging with combined assets of about \$65,000,000.

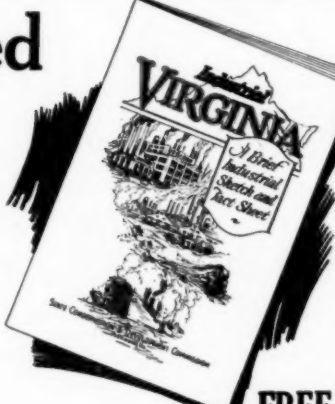


Two Books You Need

The booklet on the left is a comprehensive guide for the Tourist in Virginia. Illustrations of hundreds of places of interest. Maps to help you plan your trip. Make your trip pleasurable and profitable.

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State Office Building Richmond, Va.



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ACCOUNT CONSTRUCTION COSTS SUCH ISSUES**

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Mergers and Reorganizations Effected

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Trade Practice Rules of the Reinforcing Steel Fabricating and Distributing Industry

As a result of a trade practice conference for the Reinforcing Steel Fabricating and Distributing Industry held in Asheville in April of this year, the Federal Trade Commission, Washington, has approved the following rules for adoption by the members of the Concrete Reinforcing Steel Institute, Chicago:

GROUP I

Rule 1—Any wilful attempt to induce a breach of any existing bona fide contract, or to prevent the performance of any contractual duty or service under any bona fide contract for the sale of reinforcing materials, is an unfair method of business.

Rule 2—The marking or branding of reinforcing materials (or any misrepresentation in connection with the sale of such materials) for the purpose or with the effect of misleading or deceiving purchasers with respect to the quantity, quality, grade substance, or origin thereof, is an unfair method of business.

Rule 3—The payment or allowance of secret rebates, refunds, credits, unearned discounts, whether in the form of money or gifts, the acceptance of securities at more than true market value, or otherwise, as a means of effecting or concealing price discrimination, or the extending to certain purchasers of special privileges, including discriminatory allowances for engineering, architectural or other services, not extended to all purchasers under like terms and conditions, are unfair methods of business.

Rule 4—Any discrimination in price for reinforcing materials between purchasers for the same grade, quality or quantity of product sold, after making due allowance for differences in cost of fabricating, servicing, selling, transportation and credit risks, or unless made in good faith to meet actual established competition, is an unfair method of business.

Rule 5—Commercial bribery, whatever the form and wherever given, is hereby declared an unfair trade practice, an unfair method of competition and contrary to the public interest.

GROUP II

Rule 6—The Reinforcing Steel Fabricating and Distributing Industry shall be defined as including any person, firm or corporation fabricating, selling or distributing to the ultimate consumer or his representative, steel reinforcing bars, spirals, wire mesh, permanent and removable forms, and other products sold in connection with concrete reinforcing materials (hereinafter termed "reinforcing materials"), or placing or creating any reinforcing materials so sold or distributed, in the United States.

Rule 7—The entering into of contracts for reinforcing materials without actual obligation of the buyer to purchase any specified quantity or quan-

ties, or for any particular jobs, for the purpose of securing to the buyer a special price, is condemned by the industry.

Rule 8—The Industry approves the practice of each individual member of the Industry independently publishing and circulating his own current price lists, and also notices of all advances, declines or other changes in price.

Rule 9—The Industry approves the policy of each member submitting on each job a single bid based on individual costs and other factors deemed relevant by each firm or company, and of revising the quotation on any job only in the event of changes in plans or specifications as tending to place the Industry in line with more business-like merchandising methods in other progressive industries, and with accepted methods of bidding on Government contracts, and any violation of this policy is condemned by the industry.

Rule 10—The Industry approves the settlement of controversies between members of the Industry and those dealing with the Industry by arbitration under the prevailing code in the Industry.

Rule 11—The Industry approves the policy of adopting standard forms of contract for sales, with clearly written and commonly understood provisions fair to both buyers and sellers, as tending to avoid controversy and to promote business-like methods of distribution.

Rule 12—Any departure from original agreements with respect to terms of discount for cash or time of payment which results in discrimination between purchasers of the same class and under the same conditions is condemned by the Industry.

Rule 13—Where several different concrete reinforcing materials are bid on at the same time, or for the same job, failure to quote a separate price on reinforcing bars and spirals, on wire mesh, on permanent and removable forms, and on other or unrelated products sold in connection with such materials and on the erection thereof or other labor to be performed thereon, or the making of the acceptance of any separately priced item in a quotation contingent upon the acceptance of another such item, where the purpose or the effect thereof is to secure to a buyer a discriminatory price, is condemned by the industry.

Rule 14—Contract of sale which permit the buyer to cancel or provide for a reduced price in the event of a market decline, and which do not permit the seller to cancel or provide for an enhanced price in the event of a market rise, are lacking in mutuality and tend to induce controversy and breach of contract, and are condemned by the industry.

Rule 15—It is the judgment of this Industry that an accurate knowledge of costs is indispensable to intelligent and

fair competition, and the general adoption of accurate and uniform methods of cost finding and estimating as a means of correcting the various unfair practices heretofore mentioned is strongly recommended.

Rule 16—All contracts for the purchase or sale of reinforcing materials shall clearly state the quality and grade of such materials, and the quantity, or job on which the material is to be used, and any violation thereof is condemned by the industry.

Rule 17—This trade practice conference held under the auspices of the Federal Trade Commission shall be a continuing organization to act for the progressive elimination of unfair and uneconomic trade practices in the reinforcing steel fabricating and distributing industry, and for the application and realization of the policies and resolutions now and hereafter adopted by the conference; and the conference shall create an Executive Committee of seven members with authority to represent the conference between sessions of the entire conference and that the following persons, to wit, C. L. Meyer, O. W. Irvin, W. H. Pouch, George E. Routh, Jr., R. J. Southwell, A. C. Roeth, and W. W. Scott, Jr. be and they are hereby elected members of said Executive Committee to serve until their successors are duly elected and qualified, and that said Committee have power to fill any vacancies that may occur on account of the failure of any member of said Committee so elected to serve, or on account of the death or resignation of any member of the Committee.

Knitting Mill Sub-contracts

Charlotte, N. C.—The Southwestern Construction Company of this city, general contractors for an addition to the plant here of the Nebel Knitting Company, have awarded the following sub-contracts:

Miscellaneous Iron—R. R. Robertson, Charlotte
Plumbing—A. R. Willman, Charlotte
Sash—David Lupton's Sons Construction Co., Atlanta, Ga.
Structural steel—Dietrich Brothers, Baltimore, Md.

The addition will be 2 stories, 140 by 180 feet, to house approximately \$250,000 worth of equipment.

Hosiery Company Increases Capital

Knoxville, Tenn.—Application has been made by the Holston Manufacturing Co., Eugene B. Carter, president and general manager, for authority to increase its authorized capital stock from \$350,000 to \$725,000. The Holston mill manufactures boys' heavy ribbed hosiery.

The city of Lubbock, Texas, and the Santa Fe System have awarded contract to the Panhandle Construction Company, Lubbock, at \$212,467, for building an underpass under railway tracks on north Avenue H.



BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



PROPOSALS

Bids close November 12, 1929.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C., until 11 A. M. November 12, 1929, and then publicly opened, for furnishing all labor and materials and performing all work required at U. S. VETERANS' HOSPITAL, EXCELSIOR SPRINGS, MISSOURI, for CONSTRUCTING Buildings and Utilities, including roads, walks and drainage; also wrecking of present frame M. O. C. Residence. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, marble work, floor and wall tile, linoleum floors, iron work, flag pole, steel sash, steel stairs with slate treads, slate, metal and built-up roofing, roof ventilators, skylights, metal lathing, plastering, carpentry, insect screens, window shades, metal weather strips, painting, glazing, hardware, plumbing, additional boiler plant equipment, heating, electrical work, electric elevator, electric dumbwaiter, refrigerating plant, zeolite water softening system, steel water tank, and outside sewer, water, steam and electric distribution systems. **SEPARATE BIDS** will be received for General Construction, Electric Elevator and Electric Dumbwaiter, Refrigerating Plant, Zeolite Water Softening System and Steel Water Tank, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$60.00, payable to the **TREASURER OF THE UNITED STATES**, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. **FRANK T. HINES**, Director. October 10, 1929.

Bids close November 2, 1929.

Public Sale of "Refunding and Improvement Notes of Lincoln County"

Fayetteville, Tenn.

By virtue of the authority of a resolution of the County Court of Lincoln County, Tennessee, adopted at its October term, 1929, we, the undersigned, will attend at the office of the Clerk of the County Court of Lincoln County, Fayetteville, Tennessee, **ON SATURDAY, NOVEMBER 2nd, 1929**, at about 11 o'clock A. M. and offer for sale and sell for cash on sealed bids \$40,000.00 of the (5½%) coupon "Refunding and Improvement Notes of Lincoln County, Tennessee," which notes are dated November First, 1929, and mature and become payable as follows:

\$2000.00 one year after date;
\$3000.00 two years after date;
\$4000.00 three years after date;
\$4000.00 four years after date;
\$4000.00 thereof five years after date;
\$4000.00 thereof six years after date;
\$4000.00 thereof seven years after date;
\$5000.00 thereof eight years after date;
\$5000.00 thereof nine years after date;
\$5000.00 the remainder thereof ten years after date.

Said notes are in the denomination of \$1000.00 each. Interest is evidenced by coupons, payable semi-annually, at the rate of 5½%.

FOR FURTHER INFORMATION see or write the undersigned.

A certified check for \$1000.00 is required to be deposited with each bid. This October 16th, 1929.

A. E. SIMS, Judge.
BOONE MOORE, Clerk.

GENERAL INFORMATION

About Proposal Advertising in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day, gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close November 19, 1929.

\$225,000 5% Bonds

Laredo, Texas.

Sealed bids for the purchase of \$225,000.00 City of Laredo, Texas, Independent School District Bonds, five per cent interest, payable semi-annually, due serially over a period of forty years, with redemption option after twenty years, will be received and opened at regular City Council meeting, Tuesday, November 19, 1929, at 7:30 o'clock P. M. All bids must be accompanied by Cashier's check or certified check for \$5000.00, payable to J. A. Ortiz, City Treasurer, which will be forfeited as liquidated damages if successful bidder fails to comply with purchase. Particulars may be obtained from A. R. Garcia, City Secretary. City reserves right to reject any and all bids. Bonds dated November 1, 1929.

Witness my hand October 19, 1929.
ALBERT MARTIN, Mayor.
City of Laredo, Texas.

Bids close November 5, 1929.

Concrete Highways

Baton Rouge, La.

Sealed proposals will be received by the Louisiana Highway Commission, Room 608 Louisiana National Bank Building, Baton Rouge, Louisiana, until 11 o'clock A. M. on Tuesday, November 5, 1929. Proposals will not be received after this hour. At 11:15 o'clock A. M. of the same day and date they will be publicly opened and read in the Chamber of House of Representatives in the State Capitol Building. The work will consist of paving the following projects with Portland Cement Concrete Pavement and other work in connection therewith:

PROJECT NO. 3450, JONESBORO-HODGE HIGHWAY, located in Jackson Parish, Route No. 5. Length, 3.3 miles; width, 18 feet; Concrete Pavement. Charges for plans, \$2.00.

PROJECT NO. 3850, THIBODAUX-RACELAND HIGHWAY, located in Lafourche Parish, Route No. 29. Length, 5.0 miles; width, 18 feet; Concrete Pavement. Charges for plans, \$2.50.

PROJECT NO. 4450, NATCHITOCHES-POWATTAN HIGHWAY, located in Natchitoches Parish, Route No. 20. Length, 8.0 miles; width, 18 feet; Concrete Pavement. Charges for plans, \$3.00.

Full information and proposal forms are available at the offices of the Highway Commission at Baton Rouge. Plans and specifications may be inspected there or will be furnished upon payment of amounts specified above (not to be refunded).

O. K. ALLEN, Chairman.
Louisiana Highway Commission.
HARRY B. HENDERLITE,
State Highway Engineer.

Bids close November 25, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 21, 1929.—**SEALED BIDS** will be opened in this office at 3 P. M. November 25, 1929, for remodeling and enlarging the United States Post Office at Columbia, Tenn. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. **JAS. A. WETMORE**, Acting Supervising Architect.

Bids close October 29, 1929.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building two sections of State Highway as follows:

Anne Arundel County, Cont. AA-77—One section of State Highway from Webb's Corner on the Solomon's Island Road toward Fair Haven, a distance of 1.5 miles. (Gravel.)

Baltimore City, Cont. BC-85—One section of State Highway along the East drive of Carnegie Avenue from Eastern Avenue to O'Donnell Street, a distance of 0.58 mile. (Concrete.)

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 29th day of October, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 14th day of October, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close October 28, 1929.

Sewer Construction

Columbus, Ga.

Sealed bids will be received by the City Manager, Columbus, Georgia, until ten o'clock A. M. October 28, 1929, for the construction of sewers in Mile and Cooks Branches, at which time said bids will be publicly opened in the Commission Chamber, said city.

The quantities are approximately:

Excavation 650 cu. yds.
42-in. Reinforced Concrete Pipe
Sewer 235 lin. ft.
48-in. Plain Concrete Sewer
(Alternate No. 1) 436 lin. ft.
48-in. Segment Block Sewer
(Alternate No. 2) 436 lin. ft.
48-in. Transition Section 12 lin. ft.

Removal of existing sewer and laying 48-in. segment block sewer, including earthwork, 111 lin. ft.

Bids must be on standard forms furnished by the city and be accompanied by bidder's bond or certified check for \$500.00.

Plans and specifications may be obtained at City Engineer's office on a deposit of \$2.00.

The city reserves the right to reject any or all bids.

Complete text of legal advertisement published in Columbus Daily Ledger.

H. B. CRAWFORD,
City Manager.

Bids close October 28, 1929.

Reinforced Concrete Sewer

Columbus, Ga.

Sealed bids will be received by the City Manager, Columbus, Georgia, until ten o'clock A. M. October 28, 1929, for the construction of a reinforced concrete sewer in Schnesslers Ditch, at which time bids will be publicly opened in the Commission Chamber, said city.

The quantities are approximately:

Excavation	3126	cu. yds.
Refill under sewer	300	cu. yds.
78-in. Reinforced Concrete Sewer	2635.5	lin. ft.
72-in. Concrete Pipe Sewer	104	lin. ft.
48-in. Concrete Pipe Sewer	78	lin. ft.
Class "A" Concrete in special sections	200	cu. yds.
Reinforcing steel in special sections	7000	pounds
3-in. Brick Paving in Inverts	600	sq. yds.
Class "C" Concrete	25	cu. yds.
Manholes	5	
48-in. Wye Branch Connection	1	

Removal of broken end of culvert

Lump Sum

Bids must be on standard forms furnished by the city and be accompanied by bidder's bond or certified check for \$5000.00.

Plans and specifications may be obtained at City Engineer's office on deposit of \$5.00.

The city reserves the right to reject any or all bids.

Complete text of legal advertisement published in Columbus Daily Ledger.

H. G. CRAWFORD,

City Manager.

Bids close October 29, 1929.

Notice to Material Dealers

Jonesboro, Tenn.

Bids will be received at the office of the Mayor of Jonesboro, Tennessee, until 2.00 P. M. on October 29, 1929, and then opened, for furnishing the following material for construction of Water and Sewer Systems:

3,048	Ft. 8-in. B&S Pipe, Class B or equal.
40,323	Ft. 6-in. B&S Pipe, Class B or equal.
132	Ft. 12-in. B&S Pipe, Class A or equal.
60	Ft. 4-in. B&S Pipe, Class A or equal.
8	Tons C. I. Fittings.
15,400	Ft. 1½-in. Galv. Pipe.
31	Steamer Hydrants.
1	10-in. H. E. Gate Valve and Box.
3	8-in. H. E. Gate Valve and Box.
21	6-in. H. E. Gate Valve and Box.
3	4-in. H. E. Gate Valve and Box.
32	1½-in. Screwed Valves and Boxes.
45,000	Lbs. Virgin Pig Lead.
1,400	Lbs. Oiled Jute.
2,000	Lbs. Dry Jute.
500	Lbs. Portland Cement.
200	Tons Concrete Sand.
375	Tons Washed Gravel or Crushed Stone.
31,000	Lbs. Reinforcing Steel.
1	Chlorinator.
5,430	Ft. 10-in. Sewer Pipe.
25,000	Ft. 8-in. Sewer Pipe.
	Sewer Pipe Fittings.
36,000	Lbs. Sewer Castings.
60,000	All Hard Common Brick.

Bid Sheets and Specifications will be furnished on application to the Mayor or the Construction Managers.

The town reserves the right to reject any and all bids.

THE MAYOR AND ALDERMEN OF JONESBORO, TENN.

J. T. WHITLOCK, Mayor.

E. J. BAXTER, Recorder.

J. B. McCRARY ENG. CORP.,
Construction Managers,
Atlanta, Georgia.

Bids close November 5, 1929.

Diesel Engine Generating Unit

Tallahassee, Fla.

Sealed proposals will be received by the Board of Commissioners of State Institutions, Tallahassee, Florida, until 10 A. M. Tuesday, November 5th, 1929, for:

One Diesel Oil Engine of approximately 600 Brake horsepower, with direct connected generator, having a speed of 225 RPM, generating at 2300 volts, three phase, sixty cycles, and exciter mounted on the same shaft; unit to be complete with fuel tanks, auxiliary apparatus and piping, delivered and erected State Farm, Raiford, Florida, without switchboard.

Specifications can be secured by writing or wiring the Board of Commissioners of State Institutions, Tallahassee, Florida, or C. S. Hammatt, State Engineer, 208-10 E. Forsyth Street, Jacksonville, Florida.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

NEW MEXICO—I offer from 40 to 4000 acres, new 5 year oil and gas leases in Quay County, New Mexico, at 33 cents per acre; title perfect; annual rentals only 5 cents per acre. For maps and details address Frank Strickland, Sapulpa, Oklahoma.

320 ACRES IRON ORE in North Georgia. Analysis, price and terms on request. We specialize in grove and farm properties, also exchange of property.
P. JOHN HART REALTY & INVESTMENT CORP.,
Fort Myers, Fla.

FOR SALE—Several tracts of mineral rights. Have one tract of 16,000 acres, another of 715 acres, which have been core-drilled and open pitted. Our geological report gives 240,000,000 tons of Rock Asphalt on the large tract and 4,000,000 tons on the small tract. For complete data address
W. P. HARLEY, Bowling Green, Ky.

WATER POWER SITE

FOR SALE—Shut-in or water-power site below the Great Cumberland Falls of the Cumberland River in Kentucky.
J. C. WILLIAMS, Etowah, Tenn.

CLAY PRODUCTS

FOR SALE—Major clay products plant site, on the Gulf Coast, near New Orleans. Ample, tested, imperishable mineral materials, for making good red common brick, face brick, tile, piping and building wares. Favorable transportation facilities give territory control. Get Booklet.
OWNER, Box 24, Warrior, Ala.

TIMBER AND TIMBER LAND

SIXTY THOUSAND ACRES cut-over land in northwest Florida. Cut over 25 years ago. Now has about fifteen hundred feet pine saw timber per acre; will sell in blocks of ten thousand acres. On railroad. Price \$6 per acre; terms. Also 75,000 feet virgin hardwood, same locality, \$6 per M.; terms. Address P. O. Box 2884, St. Petersburg, Fla.

Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

Rates for Special Contract:

100 lines 28c a line
300 lines 26c a line
500 lines or more 25c a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted. On special contract advertising bills are rendered monthly, covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

FARM, FRUIT AND TRUCK LANDS

FLORIDA
FOR SALE—10,000 acres of land in Florida at \$5.00 per acre. One-third cash; balance easy.
J. M. CLARK, Box 991, Sarasota, Florida.

NORTHEASTERN OKLAHOMA IN THE OZARKS

Unimproved fruit, poultry, dairy and livestock lands—350 acres \$3.75 per acre, 270 acres on Highway \$4 per acre, 410 acres on Highway, three Springs, \$6.50 per acre.

70 acres improved \$1200; 30 improved \$1000 on Highway, 160 acres livestock farm, 45 in Red Clover, only \$2500.

1600 acres forclosed black prairie lands in tracts to suit and long time payments \$35 to \$50 per acre. Fine water, climate and soil.

W. B. WOLF, Jay, Oklahoma.

FARM, FRUIT AND TRUCK LANDS**GEORGIA**

WANTED—CASH OFFER for 3863-acre, well-improved farm that Loan Company has appraised at \$135,820.00, without cotton gin machinery. Two-story, eleven-room main dwelling, superintendent's six-room dwelling, plenty tenant houses; operate eighty single farms. Turnpike road and electric power line through and railroad station on place. Seven miles county seat. Ogeechee River southern boundary. Would also make ideal stock farm or game preserve.
T. Z. DANIEL, Millen, Ga.

SOUTH CAROLINA

FOR SALE OR RENT—200 acres of good level land about two miles south of Ridge Spring, near paved highway. Fine asparagus land; a nice young pecan orchard. Reasonable.
J. L. BLACK, Ridge Spring, S. C.

ISLAND, LAND AND TIMBER

For Sale—Four thousand acre island, twenty-one hundred high, one thousand cleared, fine truck land. Island abounds with deer, quail and other game; duck pond, high bluffs, several beautiful old homesites. Located on South Carolina coast; also other salt-water frontage, cut-over lands and timber.
J. W. BARNES, Mendel Building, Savannah, Ga.

TENNESSEE

14,500 ACRES. Special price \$110,000. Positively the **GREATEST BARGAIN IN EAST TENNESSEE.** Good title. Situated on Tenn. Cent. R. R. and on Alvin C. York Highway from Louisville to Chattanooga. One mile from the fast growing town of Crossville, Tenn. Underlaid with Nelson and Sewanee seams of coal, also a real hay, grass and stock proposition. Well watered; cattle and sheep grow 10 months in the year on native grasses. Raise potatoes; average yield, 150 bushels per acre, netted \$1.56 per bushel this year. Can be subdivided and sold in small farms, having frontage on hard surfaced highway. Must be sold to close estates. Warranty deed. Terms one-third cash, balance 1 and 2 years. Other small tracts. E. H. BENOIST, 1006 Title Guaranty Building, St. Louis, Mo.

FARM, FRUIT AND TRUCK LANDS**VIRGINIA**

VIRGINIA COUNTRY ESTATES—Write for new illustrated free catalogue of handsome Virginia Country places, hunting preserves and stock and grain farms. GEO. V. VENABLE & CO., Lynchburg, Va.

GAME PRESERVE

SPORTSMEN'S OPPORTUNITY—3500 acres, 200 acres cleared, rich land, small fresh water lakes, half mile ocean front, boat landing, plenty wild game, best fishing on N. C. coast, large mansion, plenty other buildings; Coastal highway; A. C. L. R. R. through property. Price low to settle estate. Particulars, address Route No. 1, Box 118-C, Wilmington, N. C.

SOUTHERN ESTATE

CHARLOTTESVILLE, VA., near Farmington Country Club. **FOR SALE**—A wonderful homesite, on the Jefferson Highway, just west of the University of Virginia. 100 acres, embracing a beautiful hill, from the top of which is a marvelous panoramic view of the Blue Ridge Mountains and the picturesquely rolling Piedmont country. City water and electricity. The surroundings are ideal and include some of the most distinguished country estates of Albemarle County. This property was formerly owned by Chief Justice Marshall. E. W. MOSS, Owner, Charlottesville, Va.

WATER WORKS AND FRANCHISE FOR SALE

PUBLIC SALE OF VALUABLE PROPERTY
NOVEMBER 20th, at 12 O'CLOCK
Murfreesboro, N. C.
FOR CASH

City Water Works, including Franchise, ice plant and 10-room modern residence, now owned by Geo. H. Campbell, default having been made in his payments under Deed of Trust.

And further described as follows:

Water Works consist of pipe lines on all the principal streets in Murfreesboro, N. C. 15 Standard fire hydrants installed on pipe lines.

Exclusive Franchise for water system that that does not expire until February 3rd, 1975.

12,000 gallon elevated tank, 83 ft. high. 22,000 gallon concrete reservoir. Artesian well supplies water; water is as good as any in N. C.

Water system installed new 5 years ago. Income of water system \$4700.00 annually.

Town is on State and National Highway between Norfolk, Va., and Durham, N. C. Town is gradually growing.

Last census gave us around 600; we now have about 1200.

Good schools and churches. We have Chowan College, Grade A, here. A healthy town.

6-ton Frick ice plant erected new 6 years ago; this is under same roof of town water supply.

Fairbanks-Morse crude oil engine used for power.

Sell output of ice in summer months at \$1.50 per block of 300 lbs., delivered.

Building wood frame, galvanized iron siding and top, cement floor; size of building approximately 70'x70'.

Annual income from ice plant around \$9500.00. Plant supplies several nearby towns.

An up-to-date modern 10-room residence, with hot-water heat, located near plant.

4-room cottage at plant.

If you are looking for an opportunity to invest in something that now gives a fair return and has a good future attend this sale ready to buy, because it will positively be sold on above date.

The water system, with exclusive Franchise, is worth more than you will pay for the whole property.

Come and see the property for yourself. Any further information will be gladly furnished. If desired will help you finance sale.

J. A. CAMPBELL,
Murfreesboro, N. C.

BUSINESS OPPORTUNITIES

LONG TERM LOANS, large amounts, made on industrial, mercantile, sawmill properties. THOS. W. GILMER, Attorney, Bay Minette, Alabama.

A WASHINGTON, D. C., machinery manufacturing Co. is selecting directors for each State. Parties qualifying should make small investment or advance on account that will be protected by State machine selling rights, etc. For particulars address No. 8011, care of Manufacturers Record, Baltimore, Md.

FOR SALE—Agricultural lime business. Large deposit and fully equipped plant on railroad in rich agricultural section. In successful operation over ten years. Going concern, with established trade over large territory. Nice business to handle. For details address No. 8009, care Manufacturers Record, Baltimore, Md.

FACTORY FOR SALE OR LEASE

A complete furniture factory, with or without machinery. Will lease half to right party. Buildings are sprinkled, heated, lighted and have good engine and boiler, also outside electric power.

SOUTHERN DESK COMPANY,
Hickory, N. C.

THE AVERAGE COST of thin shell hollow tile for building homes and fireproofing, made on the machine listed in our bulletin No. 1, for making hollow tile by heating poured (cast) cement, etc., is 4 cents; storage value 9 cents; we grant liberal territory tile manufacturing rights, and or machine disposal rights, to machine users or disposal agents, and demonstrate machine capacity before any payments are necessary. **THE PAULY MANUFACTURING CO.**, 1333 K Street N. W., Washington, D. C.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development and zoning made by specialists in locating industries.

TECHNICAL SERVICE CO.
Woolworth Building New York City

DEVELOPING AND ENGINEERING**ORGANIZING—DEVELOPING—ENGINEERING**

Engineering firm, widely experienced in investigating, organizing, developing, designing and supervising construction, solicit correspondence regarding development or extension of meritorious projects and existing industries, power plants and utilities. Address No. 8016, care Manufacturers Record.

WAREHOUSE

FOR RENT OR SALE—120,000 square feet, including warehouse and display room, well located for freight, express, parcel post. **GEO. T. HOUSTON & CO.**, P. O. Box 803, Memphis, Tennessee.

WAREHOUSE OR FACTORY SPACE

WAREHOUSE OR FACTORY SPACE.
For Lease or Sale—Excellent two-story concrete and brick building, 90x100 feet. Floors have ample load stress. Loading platform on railroad siding close to business section. On corner two paved streets, ample light, well ventilated, power, light and water.

Also one-story warehouse, 30,000 square feet, five acres land, railroad siding, etc. Address **STILLWELL REALTY COMPANY**, Savannah, Ga.

INDUSTRIAL PLANTS

EXTREME SACRIFICE
Strictly modern one-story Manufacturing Plant at Kokomo, Indiana; 200,000 sq. ft. floor space; all daylight; sprinklered; track. Beautiful administration building. Wonderful buy at unbelievably low price. Get particulars quick.
FANTUS FACTORY LOCATING SERVICE, 139 N. Clark St., Chicago.

INDUSTRIAL PLANTS**SOUTHERN COTTON MILL**

For Sale
8000 SPINDLES
GOOD WATER POWER
Address
F. C. ABBOTT & COMPANY,
201 Johnston Building, Charlotte, N. C.

PATENTS

MANUFACTURERS—Write for our FREE Classification Sheets of inventions for sale, covering 135 main subjects, and in one or more of which you will doubtless be interested. **ADAM FISHER MFG. CO.**, 578 Enright, St. Louis, Mo.

PATENT ATTORNEYS

FREE "PATENT PARTICULARS"
Sterling Buck, over 23 years Registered Patent Attorney. Prompt and thorough services. Suite M 629 F, Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. **WATSON E. COLEMAN**, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

PATENTS--TRADEMARKS--COPYRIGHTS
Charlotte office convenient to South. **PAUL B. EATON**, Registered Patent Attorney, 218 Johnson Building, Charlotte, N. C., and 314 McLachlen Bldg., Washington, D. C.

SEYMOUR & BRIGHT, Registered Patent Attorneys. Established 1876. **PATENTS, TRADEMARKS, COPYRIGHTS.** Prompt and thorough service. Suite 600-4, Barrister Building, Washington, D. C.

AGENCIES WANTED

WANTED—Small factories that need selling services. Product must have quality and extraordinary low price. Write No. 8018, care of Manufacturers Record, Baltimore.

SITUATIONS WANTED

CIVIL ENGINEER (Licensed), 15 years' experience supervising construction all kinds of engineering and architectural structures. Also surveys of all kinds and land development. Available Nov. 15th. Moderate salary. Any location. **L. E. F.**, Box 2103, Winston-Salem, N. C.

BUSINESS MAN of varied successful sales and management experience north and south wants a connection in the South: E. Tenn., S. W. Va. or Florida preferred. Best qualified for lumber, building material or millwork. **M. C. B.** certificate. Now employed. Also has practical knowledge of automotive, agricultural, mill and office equipment, checking of inventories, financial statements and operation details. Address No. 8019, care of Manufacturers Record, Baltimore.

MEN WANTED

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements, your identity covered and present position protected. Established nineteen years. Send only name and address for details.

R. W. BIXBY, INC.,
103 Downtown Bldg. Buffalo, New York.

MACHINERY AND SUPPLIES

BOILER, 100 H.P., return tubular, 100 lbs. pressure, new 1922, full suspension equipment. Other sizes. Write for free copy of the Machree Want List containing America's leading machinery bargains.
MACHINERY RECORD, Richmond, Va.